=> d his full Claim 1

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     FILE 'REGISTRY' ENTERED AT 11:13:50 ON 19 DEC 2005
L2             0 SEA ABB=ON  PLU=ON  (AG){5-8}PEG|(AG){5-8}PEG(AG){5-8}PEG|(AG){
                  5-8}PEG(AG){5-8}PEG(AG){5-8}PEG|(AG){5-8}PEG(AG){5-8}PEG(AG){5-
                  8}PEG(AG){5-8}PEG/SQSP
L3             0 SEA ABB=ON  PLU=ON  (AG){5-8}PEG/SQSP
L4           251 SEA ABB=ON  PLU=ON  (AG){5-8}/SQS
L5             0 SEA ABB=ON  PLU=ON  AGAGAGAGAGPEG|AGAGAGAGAGAGPEG|AGAGAGAGAGAGA
                  GPEG|AGAGAGAGAGAGAGAGPEG/SQSP
                  E AGAGAGAGAG

     FILE 'CAPLUS' ENTERED AT 11:22:19 ON 19 DEC 2005
                  E TIRRELL D/AU
L6           409 SEA ABB=ON  PLU=ON  TIRRELL D?/AU
L7             7 SEA ABB=ON  PLU=ON  L6 AND FUSION/OBI
L8             0 SEA ABB=ON  PLU=ON  L7 AND P/DT


     FILE 'REGISTRY' ENTERED AT 11:24:34 ON 19 DEC 2005
L9            12 SEA ABB=ON  PLU=ON  (62607-09-4/BI OR 1461-15-0/BI OR 170832-41
                  -4/BI OR 25087-26-7/BI OR 25722-70-7/BI OR 50812-37-8/BI OR
                  5283-66-9/BI OR 862917-15-5/BI OR 862917-16-6/BI OR 9003-01-4/B
                  I OR 9047-01-2/BI OR 9055-66-7/BI)
L10            3 SEA ABB=ON  PLU=ON  L9 AND PS/FS
                  D SCAN
L11          251 SEA ABB=ON  PLU=ON  (AG){5-8}/SQSP
L12       255120 SEA ABB=ON  PLU=ON  PEG/SQSP
L13          370 SEA ABB=ON  PLU=ON  L12 AND SQL<10

     FILE 'CAPLUS' ENTERED AT 11:26:15 ON 19 DEC 2005
L14          133 SEA ABB=ON  PLU=ON  L11
L15          224 SEA ABB=ON  PLU=ON  L13
L16            0 SEA ABB=ON  PLU=ON  L14 AND L15
L17            1 SEA ABB=ON  PLU=ON  L11/D
                  D SCAN
L18       172739 SEA ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L19            5 SEA ABB=ON  PLU=ON  L18 AND L14
                  D SCAN

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L22         4854 SEA ABB=ON  PLU=ON  L21
L23          434 SEA ABB=ON  PLU=ON  L22 AND L18
L24          114 SEA ABB=ON  PLU=ON  L23 AND PY<2001
L25        29144 SEA ABB=ON  PLU=ON  MICROARRAY?/OBI
L26            2 SEA ABB=ON  PLU=ON  L24 AND L25
                  D SCAN TI
L27       246792 SEA ABB=ON  PLU=ON  PROTEIN SEQUENCE#/OBI
L28          101 SEA ABB=ON  PLU=ON  L24 AND L27
L29              QUE ABB=ON  PLU=ON  209215-07-6/OBI OR 223775-30-2/OBI
L30            5 SEA ABB=ON  PLU=ON  209215-07-6/OBI OR 223775-30-2/OBI

L33           86 SEA ABB=ON  PLU=ON  L28 AND P/DT
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FILE 'REGISTRY' ENTERED AT 11:40:09 ON 19 DEC 2005
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STRUCTURE FILE UPDATES:   18 DEC 2005  HIGHEST RN 870123-57-2
DICTIONARY FILE UPDATES:  18 DEC 2005  HIGHEST RN 870123-57-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html


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L3             0 SEA FILE=REGISTRY ABB=ON  PLU=ON  (AG){5-8}PEG/SQSP
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no hit for both seq 1 and 2 together

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FILE COVERS 1907 - 19 Dec 2005 VOL 143 ISS 26
FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

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L12       255120 SEA FILE=REGISTRY ABB=ON  PLU=ON  PEG/SQSP
L13          370 SEA FILE=REGISTRY ABB=ON  PLU=ON  L12 AND SQL<10
L14          133 SEA FILE=CAPLUS ABB=ON  PLU=ON  L11
L15          224 SEA FILE=CAPLUS ABB=ON  PLU=ON  L13
L16            0 SEA FILE=CAPLUS ABB=ON  PLU=ON  L14 AND L15


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L11          251 SEA FILE=REGISTRY ABB=ON  PLU=ON  (AG){5-8}/SQSP
L17            1 SEA FILE=CAPLUS ABB=ON  PLU=ON  L11/D


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L14          133 SEA FILE=CAPLUS ABB=ON  PLU=ON  L11
L18       172739 SEA FILE=CAPLUS ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L19            5 SEA FILE=CAPLUS ABB=ON  PLU=ON  L18 AND L14


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L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:          1994:8949  CAPLUS
DOCUMENT NUMBER:           120:8949
TITLE:                     synthesis and characterization of periodic
                           polypeptides containing repeating-(AlaGly)xGluGly-
                           sequences
AUTHOR(S):                 Deguchi, Yoshikuni; Krejchi, Mark T.; Borbely, Janos;
                           Fournier, Maurille J.; Mason, Thomas L.; Tirrell,
                           David A.
CORPORATE SOURCE:          Dep. Polym. Sci. Eng., Univ. Massachusetts, Amherst,
                           MA, 01003, USA
SOURCE:                    Materials Research Society Symposium Proceedings
                           (1993), 292(Biomolecular Materials), 205-10
                           CODEN: MRSPDH; ISSN: 0272-9172
DOCUMENT TYPE:             Journal
LANGUAGE:                  English
ED   Entered STN:  08 Jan 1994
AB   A series of periodic polypeptides [(Ala-Gly)x-Glu-Gly]n (x = 3-6, n = 10,
     14, 18, 20, 28, 36) have been expressed from E. coli with the objective of
     understanding the role of chemical sequence in determining the chain folding
```

claim 1 SEQ ID 2

behavior of periodic macromols. Mol. organization was examined by IR spectroscopy and 1H and 13C NMR methods, and a preliminary model of the folded structure has been developed.

CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 3, 22

IT 151734-40-6D, reaction products with peptide homopolymers 151734-41-7D, reaction products with peptide homopolymers 151755-40-7D, oligopeptide terminated 151755-42-9D, oligopeptide terminated **151755-44-1D**, oligopeptide terminated **151755-46-3D**, oligopeptide terminated
RL: PROC (Process)
(expression of, from E. coli, and cyanogen bromide cleavage of, periodic peptide polymer from)

IT **151755-44-1D**, oligopeptide terminated **151755-46-3D**, oligopeptide terminated
RL: PROC (Process)
(expression of, from E. coli, and cyanogen bromide cleavage of, periodic peptide polymer from)

RN 151755-44-1 CAPLUS

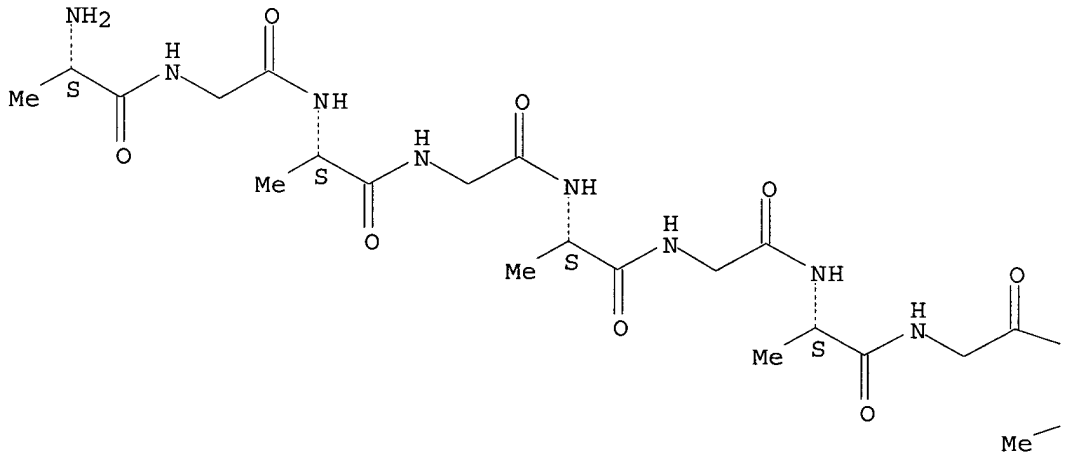
CN Glycine, L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-α-glutamyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

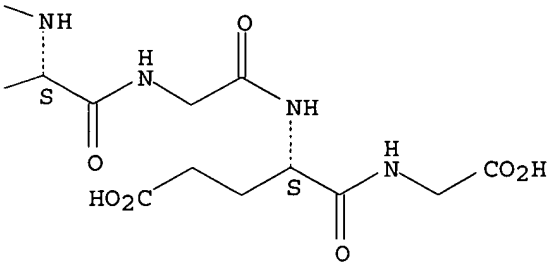
CRN 151755-43-0
CMF C32 H52 N12 O15

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



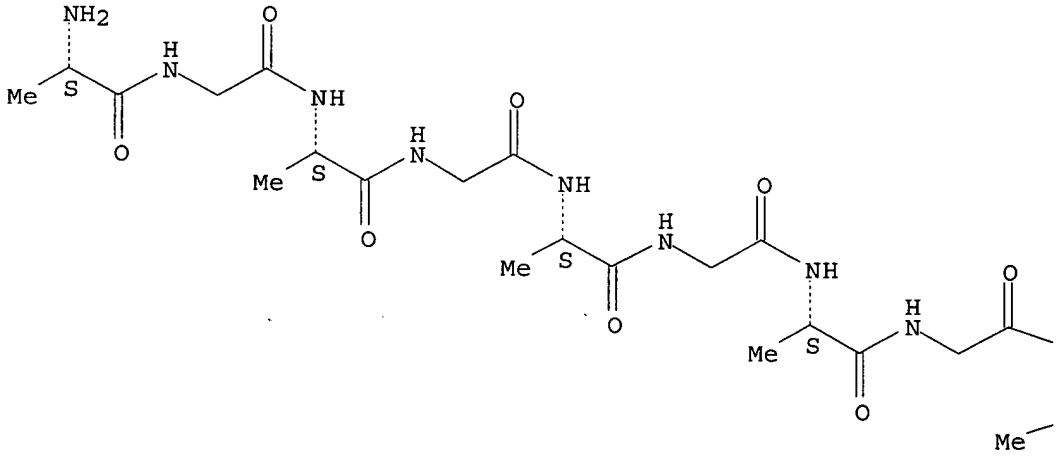
RN 151755-46-3 CAPLUS
CN Glycine, L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-α-glutamyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 151755-45-2
CMF C37 H60 N14 O17

Absolute stereochemistry.

PAGE 1-A



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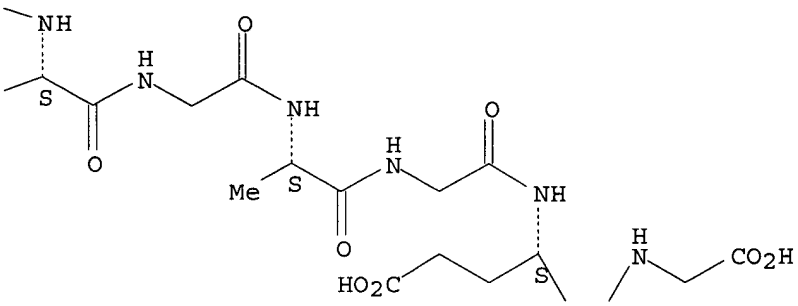

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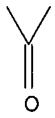

L19 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:1242711 CAPLUS

TITLE: **Chimeric** proteins comprising IgG and biological active molecules for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases

INVENTOR(S): Peters, Robert T.; Mezo, Adam R.; Rivera, Daniel S.; Bitonti, Alan J.; Low, Susan C.; Stattel, James

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 102 pp., Cont.-in-part of U.S. Ser. No. 841,250.
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005260194	A1	20051124	US 2005-29003	20050105

US 2005032174	A1	20050210	US 2004-841250	20040506
PRIORITY APPLN. INFO.:			US 2003-469600P	P 20030506
			US 2003-487964P	P 20030717
			US 2004-539207P	P 20040126
			US 2004-841250	A2 20040506

ED Entered STN: 25 Nov 2005

AB The invention relates to a chimeric monomer-dimer hybrid protein wherein said protein comprises a first and a second polypeptide chain. The said first polypeptide chain comprises at least a portion of an Ig constant region and a biol. active mol. The said second polypeptide chain comprising at least a portion of an Ig constant region without the biol. active mol. of the first chain. The invention also relates to methods of using and methods of making the chimeric monomer-dimer hybrid protein of the invention. The biol. active mol. is a viral or HIV fusion inhibitor, clotting factor, interferon-α, interferon-β, erythropoietin.

IC ICM A61K039-395
ICS C07K016-44

INCL 424133100; 530387300

CC 15-3 (Immunochemistry)
Section cross-reference(s): 3, 9, 63

ST sequence rat antiviral agent **chimeric** IG hybrid interferon; monomer dimer Ig factor IX hemostatics virus infection

IT Hemophilia
(A; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Hemophilia
(B; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Protein motifs
(FcRn binding; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(IgG1; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(IgG2; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(IgG; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(aerosols; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Labels
(affinity tag; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(buccally; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Ischemia, disease
(cardiac; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Ischemia, disease
(cerebral; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Anemia (disease)
Antiviral agents
Blood serum
Coiled-coil
Disulfide group
Human
Human immunodeficiency virus 1
Molecular association
Mutagenesis
Rattus
(**chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Blood-coagulation factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**chimeric**; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Artery, disease
(coronary; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Bond
(covalent; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Heart, disease
(failure, chronic; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Heart, disease
(failure; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(fragments; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**fusion** products; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Heart, disease
(infarction; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(injections, i.v.; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(injections, s.c.; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(injections; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Reperfusion
(injury; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Brain, disease
Heart, disease
(ischemia; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Protein motifs
(leucine zipper; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Peptides
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(linker (EPO), EFAGAAAV; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(nasal; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(oral; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(parenterals; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(pulmonary route; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(rectal; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Injury
(reperfusion; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Brain, disease
(stroke; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Drug delivery systems
(sublingual; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Drug delivery systems
(vaginal; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Infection
(viral; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Interferons
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(α; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT Interferons
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(β; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT 9001-25-6P, Blood-coagulation factor VII 9001-28-9P, factor iX 11096-26-7P, Erythropoietin 65312-43-8P, Factor VIIa
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT 870020-30-7 870020-32-9 870020-34-1 870020-36-3 870020-38-5
870020-40-9 870020-42-1 870020-44-3 870020-46-5 870020-48-7
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870020-66-9 870020-67-0 870020-68-1 870020-69-2 870020-70-5
870020-71-6 870020-72-7 870020-73-8 870020-74-9 870020-75-0
870020-76-1 870020-77-2 870020-78-3 870020-79-4 870020-80-7
870020-81-8 870020-82-9 870020-83-0 870020-84-1 870020-85-2
870020-86-3 870020-87-4 870020-88-5 870020-89-6 870020-90-9
870020-91-0
RL: PRP (Properties)
(unclaimed nucleotide sequence; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)
IT 870020-26-1 870020-27-2 870020-28-3 870020-29-4 870020-31-8
870020-33-0 870020-35-2 870020-37-4 870020-39-6 870020-41-0
870020-43-2 870020-45-4 870020-47-6 870020-49-8 870020-51-2
RL: PRP (Properties)
(unclaimed protein sequence; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic

disorder, hemophilia, anemia or bleeding diseases)

IT 76960-32-2 98849-88-8 122024-47-9 149298-34-0 160597-73-9
183788-42-3 183788-43-4 183788-44-5 183788-45-6 186252-86-8
192805-56-4 193153-62-7 194413-91-7 603132-11-2 798544-75-9
798544-76-0 **820962-04-7** 866566-88-3 869960-39-4
869960-40-7 869960-41-8 869960-42-9
RL: PRP (Properties)
(unclaimed sequence; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

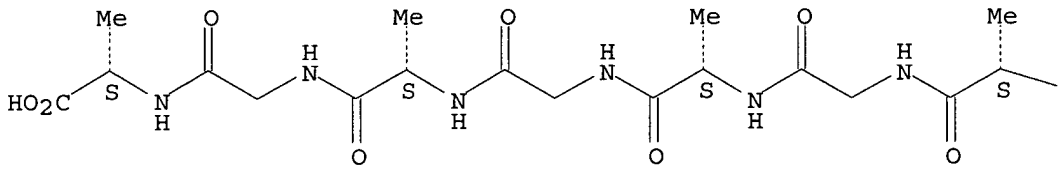
IT **820962-04-7**
RL: PRP (Properties)
(unclaimed sequence; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

RN 820962-04-7 CAPLUS

CN L-Alanine, glycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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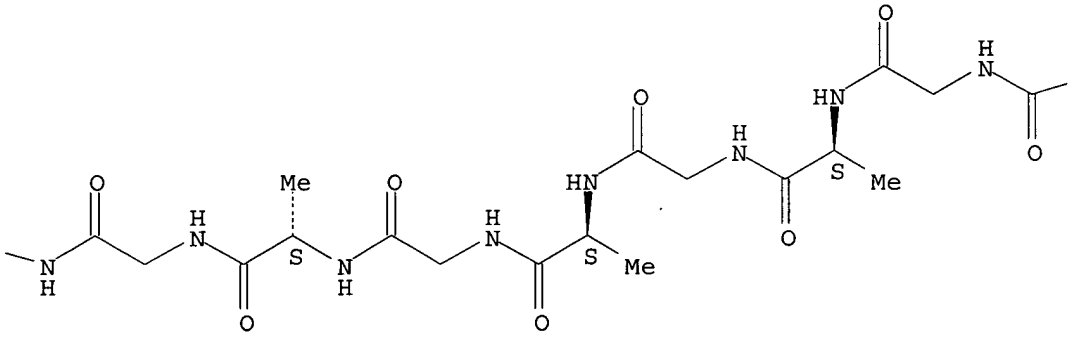
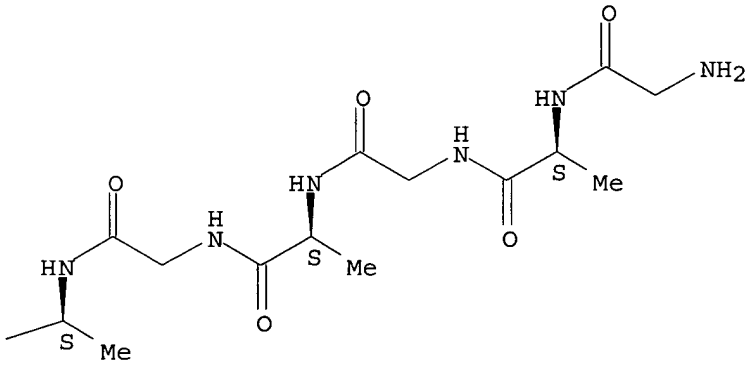


PAGE 1-C



L19 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:547418 CAPLUS
DOCUMENT NUMBER: 143:72773
TITLE: Identification and characterization of a novel alpha-amylase from maize endosperm
INVENTOR(S): James, Martha G.; Myers, Alan M.; Colleoni, Christophe; Stokes, Kevin D.
PATENT ASSIGNEE(S): Iowa State University Research Foundation, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 40 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005138688	A1	20050623	US 2004-952551	20040927
PRIORITY APPLN. INFO.:			US 2003-505995P P	20030925

ED Entered STN: 24 Jun 2005

AB SHE, a Starch Hydrolytic Enzyme active in maize endosperm (Zea mays), and the cDNA sequence encoding SHE are disclosed. The specificity of native, purified SHE is similar, in general terms, to previously known alpha-amylases. However, the activity of SHE toward amylopectin results in hydrolysis products that are distinctly different from those of other alpha-amylases. SHE, and its homologous equivalent in other plants such as rice, Arabidopsis, apple and potato, can be used in starch processing for generating different, e.g., larger sized, alpha-limit dextrins for industrial use, as compared to those generated by previously known alpha-amylases or other starch hydrolytic enzymes. In addition, modification of the expression of this enzyme in transgenic maize plants or in other transgenic organisms (including bacteria, yeast, and other plant species) can be useful for the generation of novel starch forms or altered starch metabolism

IC ICM A01H001-00
ICS C12N015-82; C12Q001-68; C07H021-04; C12N009-32; C12N005-04

INCL 800284000; 435204000; 435419000; 435468000; 435006000; 536023200

CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 7, 11

IT Proteins
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(recombinant, starch hydrolytic enzyme AMY3 **fusion** protein; identification and characterization of a novel alpha-amylase from maize endosperm)

IT 855551-71-2 **855551-72-3**
RL: PRP (Properties)
(unclaimed protein sequence; identification and characterization of a novel alpha-amylase from maize endosperm)

IT **855551-72-3**
RL: PRP (Properties)
(unclaimed protein sequence; identification and characterization of a novel alpha-amylase from maize endosperm)

RN 855551-72-3 CAPLUS

CN 16: PN: US20050138688 SEQID: 16 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L19 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:451502 CAPLUS
DOCUMENT NUMBER: 142:477125
TITLE: Methods for the production of apolipoproteins in transgenic plants
INVENTOR(S): Moloney, Maurice M.; Reid, Alexandra
PATENT ASSIGNEE(S): Sembiosys Genetics Inc., Can.
SOURCE: PCT Int. Appl., 530 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2005047455 A2 20050526 WO 2004-CA1960 20041115
WO 2005047455 A3 20050721
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2005172359 A1 20050804 US 2004-987454 20041115
PRIORITY APPLN. INFO.: US 2003-519606P P 20031114
US 2004-579733P P 20040616

ED Entered STN: 27 May 2005

AB Methods for the production of an apolipoprotein in plants are described. In one embodiment, the present invention provides a method for the expression of apolipoprotein in plants comprising : (a) providing a chimeric nucleic acid construct comprising in the 5' to 3' direction of transcription as operably linked components: (i) a nucleic acid sequence capable of controlling expression in plant cells; and (ii) a nucleic acid sequence encoding an apolipoprotein polypeptide; (b) introducing the chimeric nucleic acid construct into a plant cell; and growing the plant cell into a mature plant capable of setting seed wherein the seed expresses apolipoprotein.

IC ICM C12N
CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 6, 11, 13, 16
ST apolipoprotein **chimeric** gene vector recombinant prepn transgenic plant
IT Plasmid vectors
(binary, expressing **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)
IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(caleosin, **fusion** protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)
IT Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(constitutive, regulating **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)
IT Plant cell
Seed
(expressing **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)
IT Synthetic gene
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(for **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)
IT Thioredoxins
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(**fusion** protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)
IT Proteins

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(green fluorescent, soluble form, **fusion** protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Organelle
(oil body, protein of, **fusion** protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oleosins, **fusion** protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Codon usage
(optimized, for **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(regulating **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(seed-preferred, regulating **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(steroleosin, **fusion** protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Embryophyta
(transgenic, expressing **chimeric** apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT

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852091-23-7 852091-24-8
RL: PRP (Properties)
(unclaimed protein sequence; methods for the production of apolipoproteins in transgenic plants)

IT **852089-91-9**
RL: PRP (Properties)
(unclaimed protein sequence; methods for the production of apolipoproteins in transgenic plants)

RN 852089-91-9 CAPLUS
CN 78: PN: WO2005047455 SEQID: 76 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L19 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:355040 CAPLUS
DOCUMENT NUMBER: 140:351718
TITLE: Human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses
INVENTOR(S): Williams, Lewis T.; Chu, Keting; Lee, Ernestine; Hestir, Kevin; Beaurang, Pierre Alvaro; Behrens, Dirk; Halenbeck, Robert Forgan; Huang, Min Mei; Kothakota, Srinivas; Haishan, Lin; Linnemann, Thomas; Pierce, Kristen; Wang, Yan; Wong, Justin G. P.; Wu, Ge; Zhang, Hongbing
PATENT ASSIGNEE(S): Five Prime Therapeutics, Inc., USA
SOURCE: PCT Int. Appl., 428 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 17
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004035732	A2	20040429	WO 2003-US26780	20030828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:		
US 2002-406576P	P	20020829
US 2002-406579P	P	20020829
US 2002-406585P	P	20020829
US 2002-406588P	P	20020829
US 2002-406608P	P	20020829
US 2002-406611P	P	20020829
US 2002-406612P	P	20020829
US 2002-406616P	P	20020829
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US 2002-411048P	P	20020917
US 2002-411055P	P	20020917
US 2002-411073P	P	20020917
US 2002-411082P	P	20020917

ED Entered STN: 30 Apr 2004

AB The invention provides 1231 novel cDNAs isolated from human tissues, and their encoded polypeptides, related nucleic acid and polypeptide compns., and related modulators, such as antibodies and small mol. modulators. The invention also provides methods to make and use these polynucleotides, polypeptides, related compns., and modulators. These methods include diagnostic, prophylactic, and therapeutic applications. The compns. and methods of the invention are useful in treating proliferative disorders, e.g., cancers, and inflammatory, immune, bacterial, and viral disorders.

IC ICM C12N

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 63

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(**chimeric**; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

IT

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681891-65-6P
RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

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RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

IT **681890-83-5P 681892-52-4P 681892-99-9P**
RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

RN 681890-83-5 CAPLUS
CN Protein (human clone WO2004035732-SEQID-3466 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 681892-52-4 CAPLUS
CN Protein (human clone WO2004035732-SEQID-3646 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 681892-99-9 CAPLUS
CN Protein (human clone WO2004035732-SEQID-3695 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L19 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:523985 CAPLUS
DOCUMENT NUMBER: 135:118783
TITLE: Cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of a **chimeric** gene encoding the kinases
INVENTOR(S): Allen, Stephen M.; Lee, Jian-ming
PATENT ASSIGNEE(S): E. I. Du Pont De Nemours & Co., USA
SOURCE: U.S., 42 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6262345	B1	20010717	US 1999-347801		19990702
US 2002120949	A1	20020829	US 2001-854731		20010514
US 6794561	B2	20040921			
PRIORITY APPLN. INFO.:			US 1998-92438P	P	19980710
			US 1999-347801	A3	19990702

ED Entered STN: 19 Jul 2001
AB This invention relates to an isolated nucleic acid fragment encoding a protein kinase. The invention also relates to the construction of a chimeric gene encoding all or a portion of the protein kinase, in sense or antisense orientation, wherein expression of the chimeric gene results in production of altered levels of the protein kinase in a transformed host cell. Cloning and heterologous expression of calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 from corn, rice, soybean and wheat

is disclosed. Amino acid and encoding cDNA sequences of the plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 are provided.

IC ICM A01H009-00
ICS C12N009-12; C12N001-20; C07H021-04
INCL 800295000
CC 7-5 (Enzymes)
Section cross-reference(s): 3, 11
ST plant phosphorylase glycogen synthase kinase cDNA sequence; **chimeric** gene calcium phosphorylase kinase plant; gene **chimeric** glycogen synthase kinase 3 plant
IT Dicotyledon (Magnoliopsida)
Escherichia coli
Monocotyledon (Liliopsida)
Plant (Embryophyta)
Seed
(**chimeric** gene expression in; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)
IT Gene, plant
RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation); PROC (Process)
(**chimeric**; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)
IT Corn
Molecular cloning
Protein sequences
Rice (Oryza sativa)
Soybean (Glycine max)
Wheat
cDNA sequences
(cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)
IT Transgene
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)
IT **Chimeric** gene
RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation); PROC (Process)
(plant; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)
IT 9059-09-0P, Glycogen synthase kinase
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(3; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)
IT 350630-29-4P 350630-30-7P 350630-31-8P 350630-32-9P 350630-33-0P 350630-34-1P 350630-35-2P 350630-36-3P
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(amino acid sequence; cloning and sequencing of plant calcium-dependent

phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)

IT 350630-20-5P
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)

IT 350630-21-6 350630-22-7 350630-23-8 350630-24-9 350630-25-0
350630-26-1 350630-27-2 350630-28-3
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of **chimeric** gene encoding kinases)

IT 151596-21-3 151596-23-5 156560-28-0 **176025-10-8**
227014-75-7 253852-95-8
RL: PRP (Properties)
(unclaimed protein sequence; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of a **chimeric** gene encoding the kinases)

IT **176025-10-8**
RL: PRP (Properties)
(unclaimed protein sequence; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of a **chimeric** gene encoding the kinases)

RN 176025-10-8 CAPLUS
CN Kinase (phosphorylating), protein (calcium-calmodulin-dependent) (corn clone pMCK1) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> fil reg
FILE 'REGISTRY' ENTERED AT 11:45:15 ON 19 DEC 2005
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DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

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* The CA roles and document type information have been removed from *
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* effective March 20, 2005.  A new display format, IDERL, is now    *
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*                                                                   *
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experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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L21       25163 SEA FILE=REGISTRY ABB=ON  PLU=ON  (AG){1-8}EG/SQSP


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FILE COVERS 1907 - 19 Dec 2005  VOL 143 ISS 26
FILE LAST UPDATED: 18 Dec 2005  (20051218/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

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L23         434 SEA FILE=CAPLUS ABB=ON  PLU=ON  L22 AND L18
L24         114 SEA FILE=CAPLUS ABB=ON  PLU=ON  L23 AND PY<2001
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L23         434 SEA FILE=CAPLUS ABB=ON  PLU=ON  L22 AND L18
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L33          86 SEA FILE=CAPLUS ABB=ON  PLU=ON  L28 AND P/DT
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3 claim 1 SEQ 1 & 6

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L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:431457 CAPLUS
DOCUMENT NUMBER: 142:462276
TITLE: Tumor-associated target polypeptides for diagnosis and treatment
INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sakanaka, Chie; Chuntharapai, Anan; Reed, Chae Janeka
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107595	A1	20050519	US 2004-938061	20040910
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CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
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US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
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US 2003207803	A1	20031106	US 2001-143026	20011019
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EP 1402260	A2	20040331	EP 2002-731246	20020403

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US 2004229277	A1	20041118	US 2004-872972		20040621
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US 1999-151689P	P	19990831
US 1999-920594	A	19990908
US 1999-921090	A	19990915
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US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
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US 2000-198585P	P	20000418
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US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
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US 2001-880457	A	20010612
US 2001-882636	B1	20010614
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US 2001-339227P	P	20011019
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WO 2001-US48938	W	20011213
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US 2002-211858	A1	20020802
US 2002-404809P	P	20020819
US 2002-241220	A1	20020911
US 2004-797366	A1	20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-44
ICS C07K016-18

INCL 530387300; 530388100

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; to tumor-associated target polypeptides)

IT DNA **microarray** technology
(gene expression for tumor-associated target polypeptides in tumor tissue)

IT 851741-85-0, Antigen TAT161 (human clone DNA77507) 851741-86-1, Antigen TAT101 (human clone DNA80894) 851741-87-2, Antigen TAT157 (human clone DNA82343) 851741-88-3, Antigen TAT160 (human clone DNA87994) 851741-89-4, Antigen TAT158 (human clone DNA88131) 851741-90-7, Antigen TAT110 (human clone DNA95930) 851741-91-8, Antigen TAT210 (human clone DNA95930-1) 851741-92-9, Antigen TAT159 (human clone DNA96917) 851741-93-0, Antigen TAT112 (human clone DNA96930) 851741-94-1, Antigen TAT147 (human clone DNA96936) 851741-95-2, Antigen TAT145 (human clone DNA98565) 851741-96-3, Antigen TAT152 (human clone DNA246435) 851741-97-4, Antigen TAT162 (human clone DNA98591) 851741-98-5, Antigen TAT114 (human clone DNA108809) 851741-99-6, Antigen TAT119 (human clone DNA119488) 851742-00-2, Antigen TAT103 (human clone DNA1143493) 851742-01-3, Antigen TAT130 (human clone DNA167234) 851742-02-4, Antigen TAT166 (human clone DNA235621) 851742-03-5, Antigen TAT132 (human clone DNA176766) 851742-04-6, Antigen TAT150 (human clone DNA236463) 851742-05-7, Antigen TAT129 (human clone DNA1) 851742-06-8, Antigen TAT111 (human clone DNA188221) 851742-07-9, Antigen TAT146 (human clone DNA233876) 851742-08-0, Antigen TAT148 (human clone DNA193891) 851742-09-1, Antigen TAT187 (human clone DNA248170) 851742-10-4, Antigen TAT118 (human clone DNA194628) 851742-11-5, Antigen TAT167 (human clone DNA246415) 851742-12-6, Antigen TAT123 (human clone DNA210499) 851742-13-7, Antigen TAT211 (human clone DNA219894) 851742-14-8, Antigen TAT113 (human clone DNA215609) 851742-15-9, Antigen TAT128 (human clone DNA220432) 851742-16-0, Antigen TAT164 (human clone DNA226094) 851742-17-1, Antigen TAT122 (human clone DNA226165) 851742-18-2, Antigen TAT117 (human clone DNA226237) 851742-19-3, Antigen TAT168 (human clone DNA246450) **851742-20-6**, Antigen TAT144 (human clone DNA226456) **851742-21-7** 851742-22-8, Antigen TAT126 (human clone DNA226539) 851742-23-9, Antigen TAT151 (human clone DNA236511) 851742-24-0, Antigen TAT115 (human clone DNA226771) 851742-25-1, Antigen TAT163 (human clone DNA227087) 851742-26-2, Antigen TAT227 (human clone DNA266307) 851742-27-3, Antigen TAT228 (human clone DNA266311) 851742-28-4, Antigen TAT229 (human clone DNA266312) 851742-29-5, Antigen TAT230 (human clone DNA266313) 851742-30-8, Antigen TAT121 (human clone DNA227224) 851742-31-9, Antigen TAT183 (human clone DNA247486) 851742-32-0, Antigen TAT165 (human clone DNA227578) 851742-33-1, Antigen TAT131 (human clone DNA227800) 851742-34-2, Antigen TAT140 (human clone DNA227904) 851742-35-3, Antigen TAT127 (human clone DNA228199) 851742-36-4, Antigen TAT116 (human clone DNA228201) 851742-37-5, Antigen TAT189 (human clone DNA247488) 851742-38-6, Antigen TAT190 (human clone DNA236538) 851742-39-7, Antigen TAT191 (human clone DNA247489) 851742-40-0, Antigen TAT133 (human clone DNA228211) 851742-41-1, Antigen TAT186 (human clone DNA233937) 851742-42-2, Antigen TAT120 (human clone DNA228993) 851742-43-3, Antigen TAT124 (human clone DNA228994) 851742-44-4, Antigen TAT105 (human clone DNA229410) 851742-45-5, Antigen TAT107 (human clone DNA229411) 851742-46-6, Antigen TAT108 (human clone DNA229413) 851742-47-7, Antigen TAT139 (human clone DNA229700) 851742-48-8 851742-49-9 851742-50-2, Antigen TAT125 (human clone DNA232754) 851742-51-3, Antigen TAT149 (human clone DNA234833)

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

IT **851742-20-6**, Antigen TAT144 (human clone DNA226456)
851742-21-7
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

RN 851742-20-6 CAPLUS
CN Antigen TAT144 (human clone DNA226456) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 851742-21-7 CAPLUS
CN Neutral amino acid transport protein (human clone DNA237637 subunit) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:429313 CAPLUS
DOCUMENT NUMBER: 142:462273
TITLE: Tumor-associated target polypeptides for diagnosis and treatment
INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sliwkowski, Mark
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 337 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005106644	A1	20050519	US 2004-936626	20040908
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CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
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NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
CA 2481685	AA	20010308	CA 2000-2481685	20000824
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CA 2481731	AA	20010308	CA 2000-2481731	20000824
CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003207803	A1	20031106	US 2001-143026	20011019
US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213
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AU 772759	B2	20040506	AU 2002-14767	20020201
AU 772723	B2	20040506	AU 2002-14769	20020201
AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
WO 2002101069	A3	20030904		
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US 2003148438	A1	20030807	US 2002-145821	20020514
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US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516
US 2004214269	A1	20041028	US 2002-147518	20020516
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US 2003049743	A1	20030313	US 2002-194394	20020711
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US 2003104547	A1	20030605	US 2002-197701		20020717
US 2003104548	A1	20030605	US 2002-197706		20020717
US 2003207398	A1	20031106	US 2002-198759		20020718
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US 2003120056	A1	20030626	US 2002-289498		20021105
US 2003144498	A1	20030731	US 2002-289527		20021105
US 2004249141	A1	20041209	US 2002-289490		20021105
US 2003224984	A1	20031204	US 2002-305654		20021126
ZA 2003001205	A	20041117	ZA 2003-1205		20030213
US 2003199044	A1	20031023	US 2003-410552		20030408
ZA 2003009808	A	20050518	ZA 2003-9808		20031218
US 2004258710	A1	20041223	US 2004-791618		20040302
US 2004229277	A1	20041118	US 2004-872972		20040621
US 2004242860	A1	20041202	US 2004-872991		20040621
US 2005019823	A1	20050127	US 2004-931886		20040831
US 2005153396	A1	20050714	US 2004-955952		20040929
US 2005153348	A1	20050714	US 2004-20604		20041221
US 2005176041	A1	20050811	US 2004-26279		20041230
US 2005214819	A1	20050929	US 2005-30464		20050105
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US 2005202475	A1	20050915	US 2005-38328		20050118
US 2005176046	A1	20050811	US 2005-46650		20050128
US 2005170458	A1	20050804	US 2005-50154		20050202
US 2005176104	A1	20050811	US 2005-52503		20050204
US 2005136515	A1	20050623	US 2005-56802		20050211
US 2005136475	A1	20050623	US 2005-60652		20050216
US 2005158830	A1	20050721	US 2005-80062		20050314
US 2005214846	A1	20050929	US 2005-117757		20050427
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			US 2001-301880P	P	20010629
			US 2001-323268P	P	20010918
			US 2002-177488	A2	20020619
			US 2004-557116P	P	20040326
			US 2004-598899P	P	20040804
			US 1997-63564P	P	19971028
			US 1997-63870P	P	19971031
			US 1998-82704P	P	19980422

US 1998-83742P	P	19980430
US 1998-84366P	P	19980505
US 1998-85339P	A1	19980513
US 1998-87106P	P	19980528
US 1998-88326P	P	19980604
US 1998-88217P	P	19980605
US 1998-88655P	P	19980609
US 1998-89947P	P	19980619
US 1998-90676P	P	19980625
US 1998-91982P	P	19980707
US 1998-94651P	A1	19980730
US 1998-97022P	P	19980818
US 1998-97974P	P	19980826
AU 1998-93881	A3	19980914
AU 1998-93178	A3	19981002
US 1998-105169P	P	19981022
US 1998-63561P	P	19981028
US 1998-216021	B1	19981216
US 1998-218517	B1	19981222
US 1999-254311	A1	19990303
US 1999-131293P	P	19990427
US 1999-149395P	P	19990817
US 1999-380139	A1	19990825
US 1999-151689P	P	19990831
US 1999-920594	A	19990908
US 1999-921090	A	19990915
CA 1999-2344465	A3	19991005
EP 1999-960644	A3	19991202
US 1999-99309	A	19991220
US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-339227P	P	20011019
US 2001-336827P	P	20011107
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-331906P	P	20011120
WO 2001-US48938	W	20011213
US 2002-345444P	P	20020102
US 2002-52586	A1	20020115
US 2002-369724P	P	20020403
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508

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US 2002-241220	A1	20020911
US 2004-797366	A1	20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-30
ICS G01N033-574; C07H021-04

INCL 435007230; 536023200; 530350000; 530388800

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; to tumor-associated target polypeptides)

IT DNA **microarray** technology
(gene expression for tumor-associated target polypeptides in tumor tissue)

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

IT **851740-70-0**, Antigen TAT144 (human clone DNA226456)
851740-71-1
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

RN 851740-70-0 CAPLUS
CN Antigen TAT144 (human clone DNA226456) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 851740-71-1 CAPLUS
CN Neutral amino acid transport protein (human clone DNA237637 subunit) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L33 ANSWER 1 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:431457 CAPLUS
DOCUMENT NUMBER: 142:462276
TITLE: Tumor-associated target polypeptides for diagnosis and treatment
INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin;

Sakanaka, Chie; Chuntharapai, Anan; Reed, Chae Janeka
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107595	A1	20050519	US 2004-938061	20040910
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CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
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CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003207803	A1	20031106	US 2001-143026	20011019
US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213
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AU 772759	B2	20040506	AU 2002-14767	20020201
AU 772723	B2	20040506	AU 2002-14769	20020201
AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
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EP 1402260	A2	20040331	EP 2002-731246	20020403
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JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003148438	A1	20030807	US 2002-145821	20020514
US 2003170788	A1	20030911	US 2002-145634	20020514
US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516
US 2004214269	A1	20041028	US 2002-147518	20020516
US 2003180875	A1	20030925	US 2002-147505	20020517
US 2003199027	A1	20031023	US 2002-152396	20020520
US 2005074837	A1	20050407	US 2002-158788	20020530
US 2003068695	A1	20030410	US 2002-192012	20020709
US 2003068696	A1	20030410	US 2002-192014	20020709
US 2003049743	A1	20030313	US 2002-194394	20020711
US 2003049745	A1	20030313	US 2002-194485	20020711
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US 2003071834	A1	20030417	US 2002-195898	20020715
US 2003049749	A1	20030313	US 2002-196750	20020716
US 2003065159	A1	20030403	US 2002-196757	20020716
US 2003068710	A1	20030410	US 2002-196761	20020716
US 2003104547	A1	20030605	US 2002-197701	20020717
US 2003104548	A1	20030605	US 2002-197706	20020717
US 2003207398	A1	20031106	US 2002-198759	20020718
US 2003215910	A1	20031120	US 2002-199463	20020718
US 2003180881	A1	20030925	US 2002-202475	20020723
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US 2004249141	A1	20041209	US 2002-289490	20021105
US 2003224984	A1	20031204	US 2002-305654	20021126
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US 2003199044	A1	20031023	US 2003-410552	20030408
ZA 2003009808	A	20050518	ZA 2003-9808	20031218
US 2004258710	A1	20041223	US 2004-791618	20040302
US 2004229277	A1	20041118	US 2004-872972	20040621
US 2004242860	A1	20041202	US 2004-872991	20040621
US 2005019823	A1	20050127	US 2004-931886	20040831

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US 2005153348	A1	20050714	US 2004-20604		20041221
US 2005176041	A1	20050811	US 2004-26279		20041230
US 2005214819	A1	20050929	US 2005-30464		20050105
US 2005164266	A1	20050728	US 2005-36582		20050113
US 2005170396	A1	20050804	US 2005-36869		20050114
US 2005202475	A1	20050915	US 2005-38328		20050118
US 2005176046	A1	20050811	US 2005-46650		20050128
US 2005170458	A1	20050804	US 2005-50154		20050202
US 2005176104	A1	20050811	US 2005-52503		20050204
US 2005136515	A1	20050623	US 2005-56802		20050211
US 2005136475	A1	20050623	US 2005-60652		20050216
US 2005158830	A1	20050721	US 2005-80062		20050314
US 2005214846	A1	20050929	US 2005-117757		20050427
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			US 2001-301880P	P	20010629
			US 2001-323268P	P	20010918
			US 2002-177488	A2	20020619
			US 2004-557116P	P	20040326
			US 2004-598899P	P	20040804
			US 1997-63564P	P	19971028
			US 1997-63870P	P	19971031
			US 1998-82704P	P	19980422
			US 1998-83742P	P	19980430
			US 1998-84366P	P	19980505
			US 1998-85339P	A1	19980513
			US 1998-87106P	P	19980528
			US 1998-88326P	P	19980604
			US 1998-88217P	P	19980605
			US 1998-88655P	P	19980609
			US 1998-89947P	P	19980619
			US 1998-90676P	P	19980625
			US 1998-91982P	P	19980707
			US 1998-94651P	A1	19980730
			US 1998-97022P	P	19980818
			US 1998-97974P	P	19980826
			AU 1998-93881	A3	19980914
			AU 1998-93178	A3	19981002
			US 1998-105169P	P	19981022
			US 1998-63561P	P	19981028
			US 1998-216021	B1	19981216
			US 1998-218517	B1	19981222
			US 1999-254311	A1	19990303
			US 1999-131293P	P	19990427
			US 1999-149395P	P	19990817
			US 1999-380139	A1	19990825
			US 1999-151689P	P	19990831
			US 1999-920594	A	19990908
			US 1999-921090	A	19990915
			CA 1999-2344465	A3	19991005
			EP 1999-960644	A3	19991202
			US 1999-99309	A	19991220
			US 2000-441400	A	20000222
			WO 2000-US6471	W	20000309
			US 2000-198121P	P	20000418
			US 2000-198585P	P	20000418
			US 2000-199397P	P	20000425
			US 2000-199550P	P	20000425
			US 2000-201516P	P	20000503
			US 2000-204675P	P	20000517

CA	2000-2380355	A3 20000824
US	2000-232887P	P 20000915
US	2000-690189	A3 20001016
US	2001-816920	B1 20010322
WO	2001-US17443	W 20010530
US	2001-880457	A 20010612
US	2001-882636	B1 20010614
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WO	2001-US26626	W 20010823
US	2001-339227P	P 20011019
US	2001-336827P	P 20011107
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US	2001-2796	A 20011115
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WO	2001-US48938	W 20011213
US	2002-345444P	P 20020102
US	2002-52586	A1 20020115
US	2002-369724P	P 20020403
WO	2002-US10513	W 20020403
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US	2002-127825	A1 20020422
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US	2002-141703	A1 20020508
US	2002-145627	A1 20020514
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US	2002-197703	B1 20020717
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US	2002-199666	A1 20020718
US	2002-199464	B1 20020719
US	2002-211858	A1 20020802
US	2002-404809P	P 20020819
US	2002-241220	A1 20020911
US	2004-797366	A1 20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-44
ICS C07K016-18

INCL 530387300; 530388100

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; to tumor-associated target polypeptides)

IT **Protein sequences**
cDNA sequences
(for human tumor-associated target polypeptides)

IT 851741-85-0, Antigen TAT161 (human clone DNA77507) 851741-86-1, Antigen TAT101 (human clone DNA80894) 851741-87-2, Antigen TAT157 (human clone DNA82343) 851741-88-3, Antigen TAT160 (human clone DNA87994) 851741-89-4, Antigen TAT158 (human clone DNA88131) 851741-90-7, Antigen TAT110 (human clone DNA95930) 851741-91-8, Antigen TAT210 (human clone DNA95930-1) 851741-92-9, Antigen TAT159 (human clone DNA96917) 851741-93-0, Antigen TAT112 (human clone DNA96930) 851741-94-1, Antigen

TAT147 (human clone DNA96936) 851741-95-2, Antigen TAT145 (human clone DNA98565) 851741-96-3, Antigen TAT152 (human clone DNA246435) 851741-97-4, Antigen TAT162 (human clone DNA98591) 851741-98-5, Antigen TAT114 (human clone DNA108809) 851741-99-6, Antigen TAT119 (human clone DNA119488) 851742-00-2, Antigen TAT103 (human clone DNA1143493) 851742-01-3, Antigen TAT130 (human clone DNA167234) 851742-02-4, Antigen TAT166 (human clone DNA235621) 851742-03-5, Antigen TAT132 (human clone DNA176766) 851742-04-6, Antigen TAT150 (human clone DNA236463) 851742-05-7, Antigen TAT129 (human clone DNA1) 851742-06-8, Antigen TAT111 (human clone DNA188221) 851742-07-9, Antigen TAT146 (human clone DNA233876) 851742-08-0, Antigen TAT148 (human clone DNA193891) 851742-09-1, Antigen TAT187 (human clone DNA248170) 851742-10-4, Antigen TAT118 (human clone DNA194628) 851742-11-5, Antigen TAT167 (human clone DNA246415) 851742-12-6, Antigen TAT123 (human clone DNA210499) 851742-13-7, Antigen TAT211 (human clone DNA219894) 851742-14-8, Antigen TAT113 (human clone DNA215609) 851742-15-9, Antigen TAT128 (human clone DNA220432) 851742-16-0, Antigen TAT164 (human clone DNA226094) 851742-17-1, Antigen TAT122 (human clone DNA226165) 851742-18-2, Antigen TAT117 (human clone DNA226237) 851742-19-3, Antigen TAT168 (human clone DNA246450) **851742-20-6**, Antigen TAT144 (human clone DNA226456) **851742-21-7** 851742-22-8, Antigen TAT126 (human clone DNA226539) 851742-23-9, Antigen TAT151 (human clone DNA236511) 851742-24-0, Antigen TAT115 (human clone DNA226771) 851742-25-1, Antigen TAT163 (human clone DNA227087) 851742-26-2, Antigen TAT227 (human clone DNA266307) 851742-27-3, Antigen TAT228 (human clone DNA266311) 851742-28-4, Antigen TAT229 (human clone DNA266312) 851742-29-5, Antigen TAT230 (human clone DNA266313) 851742-30-8, Antigen TAT121 (human clone DNA227224) 851742-31-9, Antigen TAT183 (human clone DNA247486) 851742-32-0, Antigen TAT165 (human clone DNA227578) 851742-33-1, Antigen TAT131 (human clone DNA227800) 851742-34-2, Antigen TAT140 (human clone DNA227904) 851742-35-3, Antigen TAT127 (human clone DNA228199) 851742-36-4, Antigen TAT116 (human clone DNA228201) 851742-37-5, Antigen TAT189 (human clone DNA247488) 851742-38-6, Antigen TAT190 (human clone DNA236538) 851742-39-7, Antigen TAT191 (human clone DNA247489) 851742-40-0, Antigen TAT133 (human clone DNA228211) 851742-41-1, Antigen TAT186 (human clone DNA233937) 851742-42-2, Antigen TAT120 (human clone DNA228993) 851742-43-3, Antigen TAT124 (human clone DNA228994) 851742-44-4, Antigen TAT105 (human clone DNA229410) 851742-45-5, Antigen TAT107 (human clone DNA229411) 851742-46-6, Antigen TAT108 (human clone DNA229413) 851742-47-7, Antigen TAT139 (human clone DNA229700) 851742-48-8 851742-49-9 851742-50-2, Antigen TAT125 (human clone DNA232754) 851742-51-3, Antigen TAT149 (human clone DNA234833) 851742-52-4, Antigen TAT231 (human clone DNA268022) 851742-53-5, Antigen TAT104 (human clone DNA236343) 851742-54-6, Antigen TAT141 (human clone DNA236493) 851742-55-7, Antigen TAT102 (human clone DNA236534) 851742-56-8, Antigen TAT109 (human clone DNA246430) 851742-57-9, Antigen TAT142 (human clone DNA247480) 851742-58-0, Antigen TAT106 (human clone DNA264454)
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

L33 ANSWER 2 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:429313 CAPLUS
DOCUMENT NUMBER: 142:462273
TITLE: Tumor-associated target polypeptides for diagnosis and

treatment

INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sliwkowski, Mark

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 337 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 140

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 2005106644	A1	20050519	US 2004-936626	20040908	
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US	2004249141	A1	20041209	US 2002-289490	20021105
US	2003224984	A1	20031204	US 2002-305654	20021126
ZA	2003001205	A	20041117	ZA 2003-1205	20030213
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ZA 2003009808	A	20050518	ZA 2003-9808		20031218
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US 2004242860	A1	20041202	US 2004-872991		20040621
US 2005019823	A1	20050127	US 2004-931886		20040831
US 2005153396	A1	20050714	US 2004-955952		20040929
US 2005153348	A1	20050714	US 2004-20604		20041221
US 2005176041	A1	20050811	US 2004-26279		20041230
US 2005214819	A1	20050929	US 2005-30464		20050105
US 2005164266	A1	20050728	US 2005-36582		20050113
US 2005170396	A1	20050804	US 2005-36869		20050114
US 2005202475	A1	20050915	US 2005-38328		20050118
US 2005176046	A1	20050811	US 2005-46650		20050128
US 2005170458	A1	20050804	US 2005-50154		20050202
US 2005176104	A1	20050811	US 2005-52503		20050204
US 2005136515	A1	20050623	US 2005-56802		20050211
US 2005136475	A1	20050623	US 2005-60652		20050216
US 2005158830	A1	20050721	US 2005-80062		20050314
US 2005214846	A1	20050929	US 2005-117757		20050427
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			US 2001-301880P	P	20010629
			US 2001-323268P	P	20010918
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			US 2004-557116P	P	20040326
			US 2004-598899P	P	20040804
			US 1997-63564P	P	19971028
			US 1997-63870P	P	19971031
			US 1998-82704P	P	19980422
			US 1998-83742P	P	19980430
			US 1998-84366P	P	19980505
			US 1998-85339P	A1	19980513
			US 1998-87106P	P	19980528
			US 1998-88326P	P	19980604
			US 1998-88217P	P	19980605
			US 1998-88655P	P	19980609
			US 1998-89947P	P	19980619
			US 1998-90676P	P	19980625
			US 1998-91982P	P	19980707
			US 1998-94651P	A1	19980730
			US 1998-97022P	P	19980818
			US 1998-97974P	P	19980826
			AU 1998-93881	A3	19980914
			AU 1998-93178	A3	19981002
			US 1998-105169P	P	19981022
			US 1998-63561P	P	19981028
			US 1998-216021	B1	19981216
			US 1998-218517	B1	19981222
			US 1999-254311	A1	19990303
			US 1999-131293P	P	19990427
			US 1999-149395P	P	19990817
			US 1999-380139	A1	19990825
			US 1999-151689P	P	19990831
			US 1999-920594	A	19990908
			US 1999-921090	A	19990915
			CA 1999-2344465	A3	19991005
			EP 1999-960644	A3	19991202
			US 1999-99309	A	19991220
			US 2000-441400	A	20000222
			WO 2000-US6471	W	20000309
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US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-339227P	P	20011019
US 2001-336827P	P	20011107
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-331906P	P	20011120
WO 2001-US48938	W	20011213
US 2002-345444P	P	20020102
US 2002-52586	A1	20020115
US 2002-369724P	P	20020403
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
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US 2002-146793	A1	20020515
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US 2002-199666	A1	20020718
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US 2002-404809P	P	20020819
US 2002-241220	A1	20020911
US 2004-797366	A1	20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-30
ICS G01N033-574; C07H021-04

INCL 435007230; 536023200; 530350000; 530388800

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; to tumor-associated target polypeptides)

IT **Protein sequences**
cDNA sequences
(for human tumor-associated target polypeptides)

IT 851740-35-7, Antigen TAT161 (human clone DNA77507) 851740-36-8, Antigen TAT101 (human clone DNA80894) 851740-37-9, Antigen TAT157 (human clone

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

L33 ANSWER 3 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:162569 CAPLUS
DOCUMENT NUMBER: 140:212061
TITLE: Protein and cDNA sequences for human tumor associated antigenic target proteins, and related compositions and methods for the diagnosis and treatment of tumor
INVENTOR(S): Desauvage, Frederic J.; Frantz, Gretchen; Hillan, Kenneth J.; Polakis, Paul; Polson, Andrew; Smith, Victoria; Spencer, Susan D.; Wu, Thomas D.; Zhang, Zemin
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 319 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016225	A2	20040226	WO 2003-US25892	20030819
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WO 2002101069	A3	20030904		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1402260	A2	20040331	EP 2002-731246	20020403

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003148438	A1	20030807	US 2002-145821	20020514
US 2003170788	A1	20030911	US 2002-145634	20020514
US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516
US 2004214269	A1	20041028	US 2002-147518	20020516
US 2003180875	A1	20030925	US 2002-147505	20020517
US 2003199027	A1	20031023	US 2002-152396	20020520
US 2005074837	A1	20050407	US 2002-158788	20020530
US 2003068695	A1	20030410	US 2002-192012	20020709
US 2003068696	A1	20030410	US 2002-192014	20020709
US 2003049743	A1	20030313	US 2002-194394	20020711
US 2003049745	A1	20030313	US 2002-194485	20020711
US 2003064446	A1	20030403	US 2002-194460	20020711
US 2003153037	A1	20030814	US 2002-194457	20020711
US 2003059879	A1	20030327	US 2002-194456	20020712
US 2003064448	A1	20030403	US 2002-194484	20020712
US 2003049747	A1	20030313	US 2002-195899	20020715
US 2003064449	A1	20030403	US 2002-195884	20020715
US 2003063112	A1	20030403	US 2002-195896	20020715
US 2003068705	A1	20030410	US 2002-195886	20020715
US 2003068706	A1	20030410	US 2002-195891	20020715
US 2003071834	A1	20030417	US 2002-195898	20020715
US 2003049749	A1	20030313	US 2002-196750	20020716
US 2003065159	A1	20030403	US 2002-196757	20020716
US 2003068710	A1	20030410	US 2002-196761	20020716
US 2003104547	A1	20030605	US 2002-197701	20020717
US 2003104548	A1	20030605	US 2002-197706	20020717
US 2003207398	A1	20031106	US 2002-198759	20020718
US 2003215910	A1	20031120	US 2002-199463	20020718
US 2003180881	A1	20030925	US 2002-202475	20020723
US 2003064462	A1	20030403	US 2002-206919	20020726
US 2003064463	A1	20030403	US 2002-206922	20020726
US 2003068756	A1	20030410	US 2002-206912	20020726
US 2003068759	A1	20030410	US 2002-206920	20020726
US 2003068760	A1	20030410	US 2002-206921	20020726
US 2003073183	A1	20030417	US 2002-206917	20020726
US 2003096359	A1	20030522	US 2002-205910	20020726
US 2004048334	A1	20040311	US 2002-205890	20020726
US 2003068765	A1	20030410	US 2002-207916	20020729

US 2003068766	A1	20030410	US 2002-207917		20020729
US 2003068769	A1	20030410	US 2002-207920		20020729
US 2003068773	A1	20030410	US 2002-208023		20020729
US 2003068774	A1	20030410	US 2002-208026		20020729
US 2003073184	A1	20030417	US 2002-207923		20020729
US 2003073185	A1	20030417	US 2002-207924		20020729
US 2003215912	A1	20031120	US 2002-207915		20020729
US 2004048335	A1	20040311	US 2002-208024		20020729
US 2003120056	A1	20030626	US 2002-289498		20021105
US 2003144498	A1	20030731	US 2002-289527		20021105
US 2004249141	A1	20041209	US 2002-289490		20021105
US 2003224984	A1	20031204	US 2002-305654		20021126
US 2003199044	A1	20031023	US 2003-410552		20030408
CA 2495389	AA	20040226	CA 2003-2495389		20030819
EP 1578371	A2	20050928	EP 2003-788626		20030819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
US 2004258710	A1	20041223	US 2004-791618		20040302
US 2004229277	A1	20041118	US 2004-872972		20040621
US 2004242860	A1	20041202	US 2004-872991		20040621
WO 2005003154	A2	20050113	WO 2004-US21353		20040702
WO 2005003154	C1	20050616			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
US 2005170368	A1	20050804	US 2004-884070		20040702
US 2005019823	A1	20050127	US 2004-931886		20040831
US 2005064492	A1	20050324	US 2004-948518		20040922
US 2005042216	A1	20050224	US 2004-953264		20040929
US 2005153396	A1	20050714	US 2004-955952		20040929
US 2005238650	A1	20051027	US 2004-989826		20041116
US 2005153348	A1	20050714	US 2004-20604		20041221
US 2005226869	A1	20051013	US 2004-20508		20041221
US 2005176041	A1	20050811	US 2004-26279		20041230
US 2005214819	A1	20050929	US 2005-30464		20050105
US 2005164266	A1	20050728	US 2005-36582		20050113
US 2005170396	A1	20050804	US 2005-36869		20050114
US 2005202475	A1	20050915	US 2005-38328		20050118
US 2005176046	A1	20050811	US 2005-46650		20050128
US 2005170458	A1	20050804	US 2005-50154		20050202
US 2005176104	A1	20050811	US 2005-52503		20050204
US 2005136515	A1	20050623	US 2005-56802		20050211
US 2005136475	A1	20050623	US 2005-60652		20050216
US 2005158830	A1	20050721	US 2005-80062		20050314
US 2005214846	A1	20050929	US 2005-117757		20050427
PRIORITY APPLN. INFO.:			US 2002-404809P	P	20020819
			US 2002-405645P	P	20020821
			US 2002-413192P	P	20020923
			US 2002-419008P	P	20021015
			US 2002-426847P	P	20021115
			US 2003-484959P	P	20030702
			US 1997-63564P	P	19971028

US 1997-63870P	P	19971031
US 1998-82704P	P	19980422
US 1998-83742P	P	19980430
US 1998-84366P	P	19980505
US 1998-85339P	A1	19980513
US 1998-87106P	P	19980528
US 1998-88326P	P	19980604
US 1998-88217P	P	19980605
US 1998-88655P	P	19980609
US 1998-89947P	P	19980619
US 1998-90676P	P	19980625
US 1998-91982P	P	19980707
US 1998-94651P	A1	19980730
US 1998-97022P	P	19980818
US 1998-97974P	P	19980826
AU 1998-93881	A3	19980914
AU 1998-93178	A3	19981002
US 1998-105169P	P	19981022
US 1998-63561P	P	19981028
US 1998-216021	B1	19981216
US 1998-218517	B1	19981222
US 1999-254311	A1	19990303
US 1999-131293P	P	19990427
US 1999-149395P	P	19990817
US 1999-380139	A1	19990825
US 1999-151689P	P	19990831
US 1999-920594	A	19990908
US 1999-921090	A	19990915
CA 1999-2344465	A3	19991005
EP 1999-960644	A3	19991202
US 1999-99309	A	19991220
US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-323268P	P	20010918
US 2001-339227P	P	20011019
US 2001-336827P	P	20011107
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-331906P	P	20011120
WO 2001-US48938	W	20011213
US 2002-345444P	P	20020102
US 2002-52586	A1	20020115
US 2002-369724P	P	20020403
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415

US 2002-373160P	P	20020416
US 2002-125166	B2	20020417
WO 2002-US12206	A	20020417
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-378885P	P	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719
US 2002-211858	A1	20020802
US 2002-241220	A1	20020911
WO 2002-US28859	A	20020911
US 2003-411010	A1	20030410
WO 2003-US11148	A	20030410
US 2003-643795	A1	20030819
WO 2003-US25892	W	20030819
US 2003-712892	A2	20031112
WO 2003-US36298	A	20031113
US 2004-797366	A1	20040309
US 2004-983340	A2	20041105

ED Entered STN: 29 Feb 2004

AB The present invention is directed to compns. of matter useful for the diagnosis and treatment of tumor in mammals and to methods of using those compns. of matter for the same. Specifically disclosed are cDNA sequences (total 81) and corresponding encoded tumor associated antigenic target (TAT) proteins (total 77) identified in human.

IC ICM A61K

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 63

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(**chimeric**, to TAT gene product; protein and cDNA sequences for human tumor associated antigenic target proteins, and related compns. and methods for diagnosis and treatment of tumor)

IT **Protein sequences**
(of human TAT (tumor associated antigenic target); protein and cDNA sequences for human tumor associated antigenic target proteins, and related compns. and methods for diagnosis and treatment of tumor)

IT
663970-84-1P	663970-85-2P	663970-86-3P	663970-87-4P	663970-88-5P
663970-89-6P	663970-90-9P	663970-91-0P	663970-92-1P	663970-93-2P
663970-94-3P	663970-95-4P	663970-96-5P	663970-97-6P	663970-98-7P
663970-99-8P	663971-00-4P	663971-01-5P	663971-02-6P	663971-03-7P
663971-04-8P	663971-05-9P	663971-06-0P	663971-07-1P	663971-08-2P
663971-09-3P	663971-10-6P	663971-11-7P	663971-12-8P	663971-13-9P
663971-14-0P	663971-15-1P	663971-16-2P	663971-17-3P	663971-18-4P
663971-19-5P	663971-20-8P	663971-21-9P	663971-22-0P	663971-23-1P
663971-24-2P	663971-25-3P	663971-26-4P	663971-27-5P	663971-28-6P
663971-29-7P	663971-30-0P	663971-31-1P	663971-32-2P	663971-33-3P
663971-34-4P	663971-35-5P	663971-36-6P	663971-37-7P	663971-38-8P
663971-39-9P	663971-40-2P	663971-41-3P	663971-42-4P	663971-43-5P
663971-44-6P	663971-45-7P	663971-46-8P	663971-47-9P	
663971-48-0P	663971-49-1P	663971-50-4P	663971-51-5P	
663971-52-6P	663971-53-7P	663971-54-8P	663971-55-9P	663971-56-0P
663971-57-1P	663971-58-2P			

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; protein and cDNA sequences for human tumor associated antigenic target proteins, and related compns. and methods for diagnosis and treatment of tumor)

L33 ANSWER 4 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:836393 CAPLUS
DOCUMENT NUMBER: 139:336932
TITLE: Human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases
INVENTOR(S): Yu, Guo-liang; Ni, Jian; Rosen, Craig A.; Zhang, Jun; Wei, Ping
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 173 pp., Cont.-in-part of U.S. Ser. No. 226,294.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 11
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198640	A1	20031023	US 2002-310793	20021206
WO 9614328	A1	19960517	WO 1994-US12880	19941107 <--
W: AU, CA, CN, JP, KR, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 2003027284	A1	20030206	US 1998-131237	19980807
US 6599719	B2	20030729		
US 2002090683	A1	20020711	US 1999-246129	19990208
US 6824767	B2	20041130		
US 2002150534	A1	20021017	US 2001-899059	20010706
US 2003129189	A1	20030710	US 2002-226294	20020823

PRIORITY APPLN. INFO.:		
WO 1994-US12880	A2	19941107
US 1995-461246	B2	19950605
US 1998-5020	B2	19980109
US 1998-74047P	P	19980209
US 1998-131237	A2	19980807
US 1999-246129	A2	19990208
US 1999-131963P	P	19990430
US 1999-132227P	P	19990503
US 1999-134067P	P	19990513
US 2000-180908P	P	20000208
US 2000-559290	B2	20000427
US 2000-216879P	P	20000707
US 2001-278449P	P	20010326
US 2001-899059	A2	20010706
US 2001-314381P	P	20010824
US 2001-336695P	P	20011207
US 2002-226294	A2	20020823
WO 2000-US11689	A2	20000428

ED Entered STN: 24 Oct 2003
AB The present invention encompasses methods for detection, diagnosis, prevention, treatment, and/or amelioration of inflammatory bowel diseases and disorders using TNF-γβ and its receptors DR3 and TR6. In particular the invention encompasses methods of using TNF-γβ, DR3 and TR6 polypeptides, as well as antibodies, and antagonists thereto,

in the diagnosis, prognosis and treatment of ulcerative colitis and/or Crohn's disease. Methods of screening for antagonists of the TNF-γβ polypeptide, together with therapeutic uses of such antagonists are also disclosed.

IC ICM A61K039-395
INCL 424145100
CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 3, 9, 63
IT Receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(4-1BB, ligand; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(APRIL, **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(APRIL-SV; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(BAFF, BlysTM-SV; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CD30 ligand, **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Glycoproteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CD40-L (antigen CD40 ligand), **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT CD antigens
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CD70, **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies

for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(EDA; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(LIGHT; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Antigens
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(OX-40, ligand; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TNFSF7 (tumor necrosis factor superfamily member 7), **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TRAIL (tumor necrosis factor-related apoptosis-inducing ligand), **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TWEAK; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(VEGI-SV; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Fas ligand
Lymphotoxin
Tumor necrosis factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric** TNF-γβ; human tumor necrosis

factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(endokine α; **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Gene therapy
Human
Immunotherapy
Molecular cloning
Prognosis
Protein sequences
cDNA sequences
(human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Albumins, biological studies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(serum, **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Lymphotoxin
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(β, **chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 616525-37-2DP, subfragments and **chimeric** derivs. are claimed
616525-40-7DP, subfragments and **chimeric** derivs. are claimed
616525-41-8DP, **chimeric** derivs. are claimed 616525-43-0DP, subfragments and **chimeric** derivs. are claimed
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 207621-35-0P, RANKL
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric** TNF-γβ; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 616525-36-1DP, subfragments and **chimeric** derivs. are claimed

616525-38-3DP, **chimeric** derivs. are claimed 616525-39-4DP, subfragments and **chimeric** derivs. are claimed 616525-42-9DP, subfragments and **chimeric** derivs. are claimed 616525-44-1DP, **chimeric** derivs. are claimed
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 616526-20-6 616526-22-8 616526-24-0 616526-26-2 616526-28-4
616526-30-8 616526-32-0 **616526-34-2** 616526-36-4
616526-38-6 616526-40-0 616526-42-2 616526-44-4 616526-46-6
616526-48-8 616526-50-2 616526-52-4 616526-54-6 **616526-56-8**
RL: PRP (Properties)
(unclaimed **protein sequence**; human tumor necrosis factor-γβ, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

L33 ANSWER 5 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:390752 CAPLUS
DOCUMENT NUMBER: 138:396181
TITLE: Immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection
INVENTOR(S): Skeiky, Yasir A. W.; Scholler, John
PATENT ASSIGNEE(S): Corixa Corporation, USA
SOURCE: U.S., 233 pp., Cont.-in-part of U.S. 6,432,916.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6565856	B1	20030520	US 2000-598419	20000620
US 6166177	A	20001226	US 1998-208277	19981208 <--
US 6447779	B1	20020910	US 1999-288594	19990408
US 6555115	B1	20030429	US 1999-410568	19991001
US 6432916	B1	20020813	US 2000-556877	20000419
US 6448234	B1	20020910	US 2000-620412	20000720
CA 2390088	AA	20010607	CA 2000-2390088	20001204
WO 2001040474	A2	20010607	WO 2000-US32919	20001204
WO 2001040474	A3	20020307		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1238084	A2	20020911	EP 2000-980969	20001204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003515343	T2	20030507	JP 2001-542539	20001204
BR 2000016066	A	20030610	BR 2000-16066	20001204
NZ 518917	A	20040625	NZ 2000-518917	20001204

ZA 2002004359	A	20030901	ZA 2002-4359	20020530
NO 2002002592	A	20020719	NO 2002-2592	20020531
US 2004234536	A1	20041125	US 2004-872155	20040618
PRIORITY APPLN. INFO.:			US 1998-208277	A2 19981208
			US 1999-288594	A2 19990408
			US 1999-410568	A2 19991001
			US 1999-426571	A1 19991022
			US 1999-454684	A2 19991203
			US 2000-556877	A2 20000419
			US 2000-598419	A2 20000620
			US 2000-620412	A2 20000720
			WO 2000-US32919	W 20001204
			US 2001-841132	A1 20010423

ED Entered STN: 22 May 2003

AB Compds. and methods for the diagnosis and treatment of Chlamydial infection are disclosed. Chlamydia antigens of the present invention were isolated by expression cloning of genomic DNA libraries of Chlamydia trachomatis LGV II and Chlamydia pneumonia strain TWAR, and were shown to induce PBMC proliferation and interferon-γ production in immunoreactive T cell lines. The compds. provided include polypeptides that contain at least one antigenic portion of a Chlamydia antigen and DNA sequences encoding such polypeptides. In particular, the invention provides the C. trachomatis polymorphic membrane protein PmpD. Pharmaceutical compns. and vaccines comprising such polypeptides or DNA sequences are also provided, together with antibodies directed against such polypeptides. Various Pmp/Ra12 fusion constructs are also provided, where Ra12 comprises residues 192-323 of the Mycobacterium tuberculosis MTB32A serine proteinase. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of Chlamydial infection in patients and in biol. samples.

IC ICM A61K039-118

INCL 424263100; 424282100; 435007320; 435007360; 435243000; 435252100; 530300000; 530387300

CC 1-5 (Pharmacology)
Section cross-reference(s): 3, 10, 15

ST Chlamydia gene **protein sequence** infection diagnosis therapy; vaccine Chlamydia gene protein; antigen gene Chlamydia infection diagnosis therapy

IT Proteins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PmpA (polymorphic membrane protein A), **fusion** proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Proteins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PmpB (polymorphic membrane protein B), **fusion** proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Proteins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PmpC (polymorphic membrane protein C), **fusion** proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Proteins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PmpH (polymorphic membrane protein H), **fusion** proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Mycobacterium tuberculosis
(**fusions** of Ra12 fragment of MTB32A serine proteinase of; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(of Chlamydia Pmp proteins with Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pmpA, **fusions** with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pmpB, **fusions** with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pmpC, **fusions** with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pmpH, **fusions** with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT 37259-58-8DP, Serine proteinase, **fusions** of Ra12 fragment with Chlamydia Pmp proteins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(MTB32A, of Mycobacterium tuberculosis; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT 274905-98-5P 274906-00-2P 274906-02-4P 528624-95-5P 528624-96-6P
528624-97-7P 528624-98-8P 528624-99-9P 528625-02-7P 528625-03-8P
528625-09-4P 528625-11-8P 528625-13-0P 528625-14-1P 528625-35-6P
528625-59-4P 528625-60-7P 528625-61-8P 528625-62-9P 528625-73-2P
528625-75-4P 528625-78-7P 528625-80-1P 528625-82-3P 528625-84-5P
528625-85-6P 528625-86-7P **528625-93-6P** 528625-94-7P
528625-95-8P 528625-96-9P 528625-97-0P 528625-98-1P
528626-07-5P 528626-08-6P 528626-09-7P 528626-10-0P

528626-11-1P 528626-12-2P 528626-13-3P 528626-14-4P 528626-16-6P
528626-18-8P 528626-43-9P 528626-44-0P 528626-45-1P 528895-99-0P
528896-00-6P 528896-01-7P 528896-02-8P 528896-03-9P 528896-04-0P
528896-05-1P 528896-06-2P 528896-07-3P 528896-08-4P 528896-10-8P
528896-12-0P 528896-14-2P 528896-16-4P 528896-18-6P 528896-20-0P
528896-22-2P 528896-24-4P 528896-26-6P 528896-28-8P 528896-30-2P
528896-32-4P 528896-34-6P
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT 528627-08-9
RL: PRP (Properties)
(unclaimed **protein sequence**; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 6 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:77536 CAPLUS
DOCUMENT NUMBER: 138:132249
TITLE: Skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use
INVENTOR(S): Watson, James D.; Strachan, Lorna; Sleeman, Matthew; Onrust, Rene; Murison, James G.; Kumble, Krishanand D.
PATENT ASSIGNEE(S): Genesis Research and Development Corporation Limited, N. Z.
SOURCE: U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of U.S. Ser. No. 866,050.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003022835	A1	20030130	US 2002-152661	20020520
US 6150502	A	20001121	US 1998-188930	19981109 <--
WO 9955865	A1	19991104	WO 1999-NZ51	19990429 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6573095	B1	20030603	US 1999-312283	19990514
US 2003040471	A1	20030227	US 2001-866050	20010524

PRIORITY APPLN. INFO.:

US 1998-69726	B2	19980429
US 1998-188930	A2	19981109
WO 1999-NZ51	W	19990429
US 1999-312283	A2	19990514
US 2000-206650P	P	20000524
US 2000-221232P	P	20000725
US 2001-866050	A2	20010524

ED Entered STN: 31 Jan 2003

AB Isolated polynucleotides encoding polypeptides expressed in mammalian skin cells are provided, together with expression vectors and host cells comprising such isolated polynucleotides. Thus, cDNA sequences are obtained by high-throughput screening of cDNA expression libraries constructed from dermal papilla cells from rat hair vibrissae, keratinocytes from human neonatal foreskin, human neonatal fibroblasts, mouse embryonic skin, and mouse stem cells (KSCL), transit amplifying (TRAM) cells, and human small airway epithelial cells. Murine and human TR1 polypeptides from such libraries are demonstrated to stimulate keratinocyte growth and mobility, inhibit the growth of epithelial-derived cancer cells, and play a role in angiogenesis and vascularization in tumors. Addnl., human and mouse KS1, which have similarity to CXC chemokines, are also isolated and demonstrated to promote cell growth, induce an oxidative burst in human peripheral blood mononuclear cells and migration in the human monocyte leukemia cell line. Thus, such polynucleotides and polypeptides may be developed as agents for the healing of wounds, angiogenesis, and regulators of epithelial-derived cancers.

IC ICM A61K038-17
ICS C12P021-02; C12N005-06; C07H021-04; C07K014-435

INCL 514012000; 530350000; 536023500; 435069100; 435320100; 435325000

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 13

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(of skin-associated proteins; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

IT Anti-AIDS agents
Anti-inflammatory agents
Antitumor agents
Cell proliferation
Human
Inflammation
Molecular cloning
Mus
Neoplasm
Protein sequences
Rattus
Skin
Wound healing promoters
cDNA sequences
(skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

IT 247255-24-9P 247255-36-3P 491885-34-8P 491885-35-9P 491885-36-0P
491885-37-1P 491885-38-2P 491885-39-3P 491885-40-6P 491885-41-7P
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491890-21-2P 491890-22-3P 491890-23-4P 491890-24-5P 491890-25-6P
491890-26-7P 491890-27-8P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

L33 ANSWER 7 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:23361 CAPLUS
DOCUMENT NUMBER: 138:88641
TITLE: Mycobacterium vaccae antigens for treating immunologically mediated skin disorders
INVENTOR(S): Watson, James D.; Tan, Paul L. J.; Prestidge, Ross
PATENT ASSIGNEE(S): N. Z.
SOURCE: U.S. Pat. Appl. Publ., 122 pp., Cont.-in-part of U.S. 6,328,978.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003007976	A1	20030109	US 2001-880505	20010613
US 5968524	A	19991019	US 1997-997080	19971223 <--
US 6328978	B1	20011211	US 1999-324542	19990602
IN 188709	A	20021026	IN 2000-CA231	20000419
PRIORITY APPLN. INFO.:			US 1997-997080 A2	19971223

US 1999-324542 A2 19990602
IN 1998-CA242 A 19980216

ED Entered STN: 10 Jan 2003
AB Methods for the treatment of skin disorders, including psoriasis, atopic dermatitis, allergic contact dermatitis, alopecia areata, skin cancers, and related disorders, such as psoriatic arthritis are provided, such methods comprising administering a composition having antigenic and/or adjuvant properties. Compns. which may be usefully employed in the inventive methods include inactivated M. vaccae cells, delipidated and deglycolipidated M. vaccae cells, M. vaccae culture filtrate and compds. present in or derived therefrom, together with combinations of such compns.
IC ICM A61K039-00
ICS A61K039-38
INCL 424184100
CC 15-2 (Immunochemistry)
Section cross-reference(s): 63
IT DNA sequences
Dermatitis
Immunostimulants
Immunotherapy
Melanoma
Molecular cloning
Protein sequences
Psoriasis
Skin, disease
Skin, neoplasm
Vaccines
(Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
IT **Fusion** proteins (**chimeric** proteins)
Gene, microbial
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
IT 204442-79-5P 482676-55-1P 482676-56-2P 482676-57-3P 482676-58-4P 482676-59-5P 482676-61-9P 482676-63-1P, Antigen pota (Mycobacterium vaccae) 482676-65-3P, Antigen potd (Mycobacterium vaccae) 482676-67-5P 482676-72-2P, Antigen GV-27A (Mycobacterium vaccae) 482676-74-4P 482676-77-7P 482676-78-8P 482676-80-2P 482676-84-6P **482676-86-8P**, Antigen GV-35 (Mycobacterium vaccae) 482676-88-0P 482676-91-5P 482676-92-6P 482676-95-9P 482676-99-3P 482677-00-9P 482677-04-3P, Antigen GV-40 (Mycobacterium vaccae) 482677-07-6P, Antigen GVs-9 (Mycobacterium vaccae) 482678-83-1P, Antigen 85A (Mycobacterium vaccae) 482678-84-2P 482678-85-3P, Antigen 85C (Mycobacterium vaccae) 482678-87-5P, Antigen GVc-7 (Mycobacterium vaccae) 482678-89-7P 482678-92-2P, Antigen GVc-14 (Mycobacterium vaccae) 482678-93-3P 482678-94-4P, Antigen GV-27 (Mycobacterium vaccae) 482678-96-6P, Antigen GV-44 (Mycobacterium vaccae) 482678-97-7P 482678-98-8P, Antigen GV-38A (Mycobacterium vaccae) 482679-01-6P 482679-05-0P 482679-06-1P 482679-07-2P, Antigen GV-22B (Mycobacterium vaccae) 482679-08-3P, Antigen GV-1/83 (Mycobacterium vaccae) 482679-10-7P 482679-11-8P, Antigen GV-27 (Mycobacterium vaccae) 482679-12-9P 482679-15-2P, Antigen GV-24B (Mycobacterium vaccae) 482679-16-3P, Antigen GV-38B (Mycobacterium vaccae) 482679-17-4P, Antigen GV-41 (Mycobacterium vaccae) 482679-18-5P, Antigen GV-42 (Mycobacterium vaccae) 482679-19-6P, Antigen GV-45 (Mycobacterium vaccae) 482679-21-0P, Antigen GV-33 (Mycobacterium vaccae)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)

IT 482711-77-3 482711-78-4 482711-79-5 482711-80-8 482711-81-9
482711-82-0 482711-83-1 482711-84-2 482711-85-3 482711-86-4
482711-87-5 482711-90-0 482711-91-1 482711-92-2 482711-93-3
482711-97-7 482712-06-1 482712-08-3 482712-15-2
RL: PRP (Properties)
(unclaimed **protein sequence**; mycobacterium vaccae antigens for treating immunol. mediated skin disorders)

L33 ANSWER 8 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:965156 CAPLUS
DOCUMENT NUMBER: 138:34238
TITLE: Variants of the lactose repressor with increased operator binding affinity and near normal ligand responsiveness
INVENTOR(S): Matthews, Kathleen S.; Foster, Catherine M.; Swint-Kruse, Liskin
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 736,836.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002193568	A1	20021219	US 2002-197053	20020717
WO 9927108	A1	19990603	WO 1998-US24949	19981120 <--

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:		
US 1997-66213P	P	19971120
WO 1998-US24949	W	19981120
US 1999-172464P	P	19991217
US 2000-554537	A2	20000512
US 2000-736836	A2	20001214

ED Entered STN: 20 Dec 2002
AB The present invention provides lac repressor proteins that recognize the lactose operator with increased affinity and have either normal or improved ligand responsiveness. For example, the lac repressor Gln60Gly variant shows increased binding affinity for lactose operator DNA, while maintaining near-normal response to the gratuitous inducer IPTG. Alternatively, the present invention provides modified repressors which exhibit responsiveness to an alternative ligand, such as arabinose, or have enhanced responsivity to IPTG. For example, Gln60Gly,Leu148Phe binds with wild-type affinity to lactose operator DNA and exhibits enhanced responsivity to IPTG. The present invention also provides for repressors that exhibit both characteristics: increased affinity for lactose operator and enhanced ligand responsivity. Enhanced ligand response enables induction of gene expression to be finely controlled by a researcher. DNA

sequences encoding the altered lac repressor proteins and bacterial and eukaryotic cells containing altered lac repressor proteins are also provided. The dissociation constant of the lacO operator and the Gln60Gly variant of the repressor was 4+10-12M, compared to 1.2+10-11M for the wild-type repressor.

IC ICM C12P021-02
ICS C12N001-21; C07H021-04; C12N009-99
INCL 530350000; 435184000; 435320100; 435069200; 435252300; 536023200
CC 3-4 (Biochemical Genetics)
Section cross-reference(s): 6
IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(arabinose-binding, **fusion** products with lac repressor; variants of lactose repressor with increased operator binding affinity and near normal ligand responsiveness)
IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(carbohydrate-binding, glucose/galactose-binding, **fusion** products with lac repressor; variants of lactose repressor with increased operator binding affinity and near normal ligand responsiveness)
IT Transcription factors
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lactose repressors, variants, **fusion** products; variants of lactose repressor with increased operator binding affinity and near normal ligand responsiveness)
IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(ribose-binding, **fusion** products with lac repressor; variants of lactose repressor with increased operator binding affinity and near normal ligand responsiveness)
IT 478475-39-7 478475-41-1 **478475-42-2** 478475-43-3
RL: PRP (Properties)
(unclaimed **protein sequence**; variants of the lactose repressor with increased operator binding affinity and near normal ligand responsiveness)

L33 ANSWER 9 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:814911 CAPLUS
DOCUMENT NUMBER: 137:320697
TITLE: Use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass
INVENTOR(S): Lee, Se-jin; McPherron, Alexandra C.
PATENT ASSIGNEE(S): The Johns Hopkins University School of Medicine, USA
SOURCE: U.S. Pat. Appl. Publ., 86 pp., Cont.-in-part of U.S. Ser. No. 626,896.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002157126	A1	20021024	US 2001-841730	20010424

PI US 6891082 B2 20050510
WO 9906559 A1 19990211 WO 1998-US15598 19980728 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 6696260 B1 20040224 US 2000-485046 20000505
US 6656475 B1 20031202 US 2000-626896 20000727
CA 2448835 AA 20021031 CA 2002-2448835 20020424
WO 2002085306 A2 20021031 WO 2002-US13103 20020424
WO 2002085306 A3 20021212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1395113 A2 20040310 EP 2002-764345 20020424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
BR 2002009191 A 20040420 BR 2002-9191 20020424
CN 1520256 A 20040811 CN 2002-812610 20020424
JP 2004537982 T2 20041224 JP 2002-582882 20020424
ZA 2003008021 A 20041015 ZA 2003-8021 20031015
US 2005257278 A1 20051117 US 2005-51267 20050203
PRIORITY APPLN. INFO.: US 1997-54461P P 19970801
WO 1998-US15598 W 19980728
US 2000-485046 A2 20000505
US 2000-626896 A2 20000727
US 2001-841730 A 20010424
WO 2002-US13103 W 20020424

ED Entered STN: 25 Oct 2002

AB The invention relates generally to growth differentiation factor (GDF) receptors, and more specifically to GDF-8 (myostatin) receptors, to compns. that affect myostatin signal transduction in a cell, and to methods of using such compns. to modulate myostatin signal transduction in a cell. A myostatin signal transduction pathway is exemplified by the Smad pathway, which is initiated upon myostatin specifically interacting with the extracellular domain of an activin type II receptor. The present invention provides a substantially purified prodomain portion of a promyostatin polypeptide, its biol. activities in inhibiting muscle growth and fat accumulation. The invention discloses that a promyostatin prodomain or GDF-11 prodomain can interact with mature myostatin, GDF-11, or both, thereby reducing or inhibiting the ability of the mature GDF to interact specifically with its receptor. Follistatin is another example of an agent that can bind to and inhibit the activity of myostatin and GDF-11. It was not known, prior to the present disclosure, that follistatin reduces or inhibits the ability of myostatin to interact specifically with a myostatin receptor such as activin receptor, Act RIIB. The present invention provides a substantially purified growth differentiation factor (GDF) receptor, including a myostatin receptor, such as an activin receptor, as well as functional peptide portions thereof. In addition, the invention provides a virtual representation of a

GDF receptor or a functional peptide portion thereof. The present invention also provides a method of modulating an effect of myostatin on a cell by contacting the cell with an agent that affects myostatin signal transduction in the cell. In addition, the invention provides a method of ameliorating the severity of a pathol. condition, which is characterized, at least in part, by an abnormal amount, development or metabolic activity of muscle or adipose tissue in a subject, by modulating myostatin signal transduction in a muscle cell or an adipose tissue cell in the subject. The invention also provides a method of modulating the growth of muscle tissue or adipose tissue in a eukaryotic organism by administering an agent that affects myostatin signal transduction to the organism.

IC ICM A01K067-027
ICS C07K014-705

INCL 800018000

CC 2-10 (Mammalian Hormones)
Section cross-reference(s): 3, 6, 17

IT Egg
(maturing and fertilizing in vitro, to produce **chimeric** animal; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

IT **Protein sequences**
(of promystotin from different species; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

IT In vitro fertilization
(to produce **chimeric** animal; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

IT Embryo, animal
(transgenic, **chimeric**, transplanting into recipient female; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

IT Animal
(transgenic, **chimeric**; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

IT Embryo, animal
(zygote, introducing genetic vector into, to produce **chimeric** animal; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

IT 473495-59-9DP, subfragments are claimed **473496-21-8DP**, subfragments are claimed **473496-22-9DP**, subfragments are claimed 473496-23-0DP, subfragments are claimed 473496-24-1DP, subfragments are claimed 473496-25-2DP, subfragments are claimed 473496-26-3DP, subfragments are claimed 473496-27-4DP, subfragments are claimed 473496-28-5DP, subfragments are claimed 473496-29-6DP, subfragments are claimed 473496-30-9DP, subfragments are claimed 473496-31-0DP, subfragments are claimed 473496-32-1DP, subfragments are claimed 473496-33-2DP, subfragments are claimed 473496-34-3DP, subfragments are claimed 473496-35-4DP, subfragments are claimed 473496-36-5DP, subfragments are claimed 473496-37-6DP, subfragments are claimed 473496-38-7DP, subfragments are claimed 473496-39-8DP, subfragments are claimed 473496-40-1DP, subfragments are claimed 473496-41-2DP, subfragments are claimed 473496-42-3DP, subfragments are claimed
RL: AGR (Agricultural use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); FFD (Food or feed use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to

increase muscle mass)
IT 473497-59-5
RL: PRP (Properties)
(unclaimed **protein sequence**; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)

L33 ANSWER 10 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:792149 CAPLUS
DOCUMENT NUMBER: 137:306635
TITLE: Cloning, characterization and use of a human very long chain acyl-CoA synthase (VLCAS)-like protein
INVENTOR(S): Wood, William I.; Goddard, Audrey; Gurney, Austin; Yuan, Jean; Baker, Kevin P.; Chen, Jian
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1249491	A2	20021016	EP 2002-12906	19990308
EP 1249491	A3	20030212		
EP 1249491	B1	20050907		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
EP 1241187	A2	20020918	EP 2002-12898	19990308
EP 1241187	A3	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
EP 1241180	A2	20020918	EP 2002-12900	19990308
EP 1241180	A3	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
EP 1241183	A2	20020918	EP 2002-12901	19990308
EP 1241183	A3	20030611		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
EP 1241185	A2	20020918	EP 2002-12904	19990308
EP 1241185	A3	20030305		
EP 1241185	B1	20050105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
EP 1270590	A1	20030102	EP 2002-12903	19990308
EP 1270590	B1	20040908		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NZ 507435	A	20031219	NZ 1999-507435	19990308
EP 1386931	A1	20040204	EP 2003-6440	19990308
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO, MK, CY, AL				
NZ 525914	A	20040326	NZ 1999-525914	19990308
EP 1490386	A2	20041229	EP 1999-912321	19990308
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NZ 528699	A	20050225	NZ 1999-528699	19990308
NZ 528704	A	20050225	NZ 1999-528704	19990308

AT 304049	E	20050915	AT 2002-12906	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
CA 2481685	AA	20010308	CA 2000-2481685	20000824
CA 2481691	AA	20010308	CA 2000-2481691	20000824
CA 2481731	AA	20010308	CA 2000-2481731	20000824
CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003069178	A1	20030410	US 2001-978423	20011016
US 2003083248	A1	20030501	US 2001-978757	20011016
US 2003138439	A1	20030724	US 2001-143031	20011019
US 2003203442	A1	20031030	US 2001-165353	20011019
US 2003207803	A1	20031106	US 2001-143026	20011019
US 2002192706	A1	20021219	US 2001-999832	20011024
US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU 772759	B2	20040506	AU 2002-14767	20020201
AU 772723	B2	20040506	AU 2002-14769	20020201
AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
WO 2002101069	A3	20030904		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1402260	A2	20040331	EP 2002-731246	20020403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005500030	T2	20050106	JP 2003-503819	20020403
JP 2004000005	A2	20040108	JP 2002-137004	20020513
JP 2004000006	A2	20040108	JP 2002-137005	20020513
US 2003148438	A1	20030807	US 2002-145821	20020514
US 2003170788	A1	20030911	US 2002-145634	20020514
US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516

US 2004214269	A1	20041028	US 2002-147518	20020516
US 2003180875	A1	20030925	US 2002-147505	20020517
US 2003199027	A1	20031023	US 2002-152396	20020520
US 2005074837	A1	20050407	US 2002-158788	20020530
US 2003068695	A1	20030410	US 2002-192012	20020709
US 2003068696	A1	20030410	US 2002-192014	20020709
US 2003049743	A1	20030313	US 2002-194394	20020711
US 2003049745	A1	20030313	US 2002-194485	20020711
US 2003064446	A1	20030403	US 2002-194460	20020711
US 2003153037	A1	20030814	US 2002-194457	20020711
US 2003059879	A1	20030327	US 2002-194456	20020712
US 2003064448	A1	20030403	US 2002-194484	20020712
US 2003049747	A1	20030313	US 2002-195899	20020715
US 2003064449	A1	20030403	US 2002-195884	20020715
US 2003063112	A1	20030403	US 2002-195896	20020715
US 2003068705	A1	20030410	US 2002-195886	20020715
US 2003068706	A1	20030410	US 2002-195891	20020715
US 2003071834	A1	20030417	US 2002-195898	20020715
US 2003049749	A1	20030313	US 2002-196750	20020716
US 2003065159	A1	20030403	US 2002-196757	20020716
US 2003068710	A1	20030410	US 2002-196761	20020716
US 2003104547	A1	20030605	US 2002-197701	20020717
US 2003104548	A1	20030605	US 2002-197706	20020717
US 2003207398	A1	20031106	US 2002-198759	20020718
US 2003215910	A1	20031120	US 2002-199463	20020718
US 2003180881	A1	20030925	US 2002-202475	20020723
US 2003064462	A1	20030403	US 2002-206919	20020726
US 2003064463	A1	20030403	US 2002-206922	20020726
US 2003068756	A1	20030410	US 2002-206912	20020726
US 2003068759	A1	20030410	US 2002-206920	20020726
US 2003068760	A1	20030410	US 2002-206921	20020726
US 2003073183	A1	20030417	US 2002-206917	20020726
US 2003096359	A1	20030522	US 2002-205910	20020726
US 2004048334	A1	20040311	US 2002-205890	20020726
US 2003068765	A1	20030410	US 2002-207916	20020729
US 2003068766	A1	20030410	US 2002-207917	20020729
US 2003068769	A1	20030410	US 2002-207920	20020729
US 2003068773	A1	20030410	US 2002-208023	20020729
US 2003068774	A1	20030410	US 2002-208026	20020729
US 2003073184	A1	20030417	US 2002-207923	20020729
US 2003073185	A1	20030417	US 2002-207924	20020729
US 2003215912	A1	20031120	US 2002-207915	20020729
US 2004048335	A1	20040311	US 2002-208024	20020729
US 2003120056	A1	20030626	US 2002-289498	20021105
US 2003144498	A1	20030731	US 2002-289527	20021105
US 2004249141	A1	20041209	US 2002-289490	20021105
US 2003224984	A1	20031204	US 2002-305654	20021126
US 2003199044	A1	20031023	US 2003-410552	20030408
US 2004258710	A1	20041223	US 2004-791618	20040302
US 2005019823	A1	20050127	US 2004-931886	20040831
US 2005153396	A1	20050714	US 2004-955952	20040929
US 2005153348	A1	20050714	US 2004-20604	20041221
US 2005176041	A1	20050811	US 2004-26279	20041230
US 2005214819	A1	20050929	US 2005-30464	20050105
US 2005164266	A1	20050728	US 2005-36582	20050113
US 2005170396	A1	20050804	US 2005-36869	20050114
US 2005202475	A1	20050915	US 2005-38328	20050118
US 2005176046	A1	20050811	US 2005-46650	20050128
US 2005170458	A1	20050804	US 2005-50154	20050202
US 2005176104	A1	20050811	US 2005-52503	20050204

US 2005136515	A1	20050623	US 2005-56802		20050211
US 2005136475	A1	20050623	US 2005-60652		20050216
US 2005158830	A1	20050721	US 2005-80062		20050314
US 2005214846	A1	20050929	US 2005-117757		20050427
PRIORITY APPLN. INFO.:			US 1998-80334P	P	19980401
			EP 1999-912321	A3	19990308
			US 1997-62250P	P	19971017
			US 1997-63564P	P	19971028
			US 1997-63870P	P	19971031
			US 1997-64249P	P	19971103
			US 1997-65311P	P	19971113
			US 1997-66364P	P	19971121
			US 1998-77450P	P	19980310
			US 1998-77632P	P	19980311
			US 1998-77641P	P	19980311
			US 1998-77649P	P	19980311
			US 1998-77791P	P	19980312
			US 1998-78004P	P	19980313
			US 1998-40220	A	19980317
			US 1998-78886P	P	19980320
			US 1998-78910P	P	19980320
			US 1998-78936P	P	19980320
			US 1998-78939P	P	19980320
			US 1998-79294P	P	19980325
			US 1998-79656P	P	19980326
			US 1998-79663P	P	19980327
			US 1998-79664P	P	19980327
			US 1998-79689P	P	19980327
			US 1998-79728P	P	19980327
			US 1998-79786P	P	19980327
			US 1998-79920P	P	19980330
			US 1998-79923P	P	19980330
			US 1998-80105P	P	19980331
			US 1998-80107P	P	19980331
			US 1998-80165P	P	19980331
			US 1998-80194P	P	19980331
			US 1998-80327P	P	19980401
			US 1998-80328P	P	19980401
			US 1998-80333P	P	19980401
			US 1998-81049P	P	19980408
			US 1998-81070P	P	19980408
			US 1998-81071P	P	19980408
			US 1998-81195P	P	19980409
			US 1998-81203P	P	19980409
			US 1998-81229P	P	19980409
			US 1998-81817P	P	19980415
			US 1998-81838P	P	19980415
			US 1998-81952P	P	19980415
			US 1998-81955P	P	19980415
			US 1998-82568P	P	19980421
			US 1998-82569P	P	19980421
			US 1998-82700P	P	19980422
			US 1998-82704P	P	19980422
			US 1998-82804P	P	19980422
			US 1998-83742P	P	19980430
			US 1998-84366P	P	19980505
			US 1998-85339P	A1	19980513
			US 1998-87106P	P	19980528
			US 1998-88326P	P	19980604
			US 1998-88217P	P	19980605

US 1998-88655P	P	19980609
US 1998-89947P	P	19980619
US 1998-90676P	P	19980625
US 1998-91982P	P	19980707
US 1998-94651P	A1	19980730
US 1998-97022P	P	19980818
US 1998-97974P	P	19980826
AU 1998-93881	A3	19980914
AU 1998-93178	A3	19981002
US 1998-105169P	P	19981022
US 1998-63561P	P	19981028
US 1998-216021	B1	19981216
US 1998-218517	B1	19981222
US 1999-254311	A1	19990303
JP 1999-535657	A3	19990308
NZ 1999-507435	A1	19990308
US 1999-131293P	P	19990427
US 1999-131445P	A1	19990428
US 1999-149395P	P	19990817
US 1999-380139	A1	19990825
US 1999-151689P	P	19990831
US 1999-920594	A	19990908
US 1999-921090	A	19990915
CA 1999-2344465	A3	19991005
EP 1999-960644	A3	19991202
US 1999-99309	A	19991220
WO 2000-US4341	A1	20000218
US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
WO 2001-US48938	W	20011213
US 2002-52586	A1	20020115
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719

US 2002-211858 A1 20020802
US 2004-797366 A1 20040309

ED Entered STN: 18 Oct 2002

AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. Isolation of cDNA clones encoding human VLCAS gave the full-length DNA sequence for the enzyme. The full-length cDNA sequence of human VLCAS (clone UNQ367) and the amino acid sequence of the encoded polypeptide are disclosed.

IC ICM C12N009-10
ICS C07K019-00; C12N015-12; C12N015-62; C07K016-40

CC 7-5 (Enzymes)
Section cross-reference(s): 3, 13

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(VLCAS-containing; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)

IT Epitopes
(**chimeric** protein containing VLCAS and epitope tag sequence; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)

IT Genetic vectors
Human
Molecular cloning
Protein motifs
Protein sequences
cDNA sequences
(cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fragments, **chimeric** protein containing VLCAS and Ig Fc fragment; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)

IT **470727-26-5DP**, subfragments and homologs are claimed
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)

L33 ANSWER 11 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:610434 CAPLUS
DOCUMENT NUMBER: ~~137:16~~4736
TITLE: Secreted protein HPEAD48 and use thereof
INVENTOR(S): Ruben, Steven M.; Rosen, Craig A.; Olsen, Henrik S.
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA
SOURCE: U.S., 135 pp., Cont.-in-part of Appl. No. PCT/US98/21142.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6433139	B1	20020813	US 1999-288143	19990408
WO 9919339	A1	19990422	WO 1998-US21142	19981008 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2004010132	A1	20040115	US 2001-984429	20011030
US 2003078386	A1	20030424	US 2002-150111	20020520
PRIORITY APPLN. INFO.:			US 1997-61463P	P 19971009
			US 1997-61527P	P 19971009
			US 1997-61529P	P 19971009
			US 1997-61532P	P 19971009
			US 1997-61536P	P 19971009
			US 1997-71498P	P 19971009
			WO 1998-US21142	A2 19981008
			US 1999-288143	A2 19990408
			US 2000-244591P	P 20001101

ED Entered STN: 15 Aug 2002

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins.

IC ICM C07K001-00

INCL 530350000

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 13, 63

IT Antibodies and Immunoglobulins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fragments, Fc, **fusion** product with HPEAD48; secreted protein HPEAD48 and use thereof)

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(of Ig Fc fragment and HPEAD48; secreted protein HPEAD48 and use thereof)

IT Drug screening
Gene therapy
Human
Molecular cloning
Nucleic acid hybridization
Plasmid vectors
Protein sequences
Viral vectors
(secreted protein HPEAD48 and use thereof)

IT 447476-52-0 447477-17-0 447477-19-2 447477-20-5 447477-21-6
447477-22-7 447477-23-8 447477-24-9 447477-25-0 447477-26-1
447477-27-2 447477-28-3 447477-29-4 447477-30-7 447477-31-8
447477-32-9 447477-33-0 447477-34-1 447477-35-2 447477-36-3
447477-37-4 447477-38-5 447477-39-6 447477-40-9 447477-41-0

447477-42-1 447477-43-2 447477-44-3 447477-45-4 447477-46-5
447477-47-6 447477-48-7 447477-49-8 447477-50-1 447477-51-2
447477-52-3 447477-53-4 447477-54-5 447477-55-6 447477-56-7
447477-57-8 447477-58-9 447477-59-0 447477-60-3 447477-61-4
447477-62-5 447477-63-6 447477-64-7 447477-65-8 447477-66-9
447477-67-0 447477-68-1 447477-69-2 447477-70-5 447477-71-6
447477-72-7 447477-73-8 447477-74-9 447477-75-0 **447477-76-1**
447477-77-2 447477-78-3 447477-79-4 447477-80-7 447477-81-8
447477-82-9 447477-83-0 447477-84-1 447477-85-2 447477-86-3
447477-87-4 447477-88-5 447477-89-6 447477-90-9 447477-91-0
447477-92-1 447477-93-2 447477-94-3 447477-95-4 447477-96-5
447477-97-6 447477-98-7 447477-99-8 447478-00-4 447478-01-5
447478-02-6 447478-03-7 447478-04-8 447478-05-9 447478-06-0
447478-07-1 447478-08-2 447478-09-3 447478-10-6 447478-11-7
RL: PRP (Properties)
(unclaimed **protein sequence**; secreted protein
HPEAD48 and use thereof)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 12 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:609966 CAPLUS
DOCUMENT NUMBER: 137:168258
TITLE: Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection
INVENTOR(S): Probst, Peter; Bhatia, Ajay; Skeiky, Yasir A. W.; Fling, Steven P.
PATENT ASSIGNEE(S): Corixa Corporation, USA
SOURCE: U.S., 194 pp., Cont. of U.S. Ser. No. 454,684.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6432916	B1	20020813	US 2000-556877	20000419
US 6166177	A	20001226	US 1998-208277	19981208 <--
US 6447779	B1	20020910	US 1999-288594	19990408
US 6555115	B1	20030429	US 1999-410568	19991001
US 6565856	B1	20030520	US 2000-598419	20000620
US 6448234	B1	20020910	US 2000-620412	20000720
CA 2390088	AA	20010607	CA 2000-2390088	20001204
WO 2001040474	A2	20010607	WO 2000-US32919	20001204
WO 2001040474	A3	20020307		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1238084	A2	20020911	EP 2000-980969	20001204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003515343	T2	20030507	JP 2001-542539	20001204

BR 2000016066	A	20030610	BR 2000-16066	20001204
NZ 518917	A	20040625	NZ 2000-518917	20001204
ZA 2002004359	A	20030901	ZA 2002-4359	20020530
NO 2002002592	A	20020719	NO 2002-2592	20020531
US 2004234536	A1	20041125	US 2004-872155	20040618
PRIORITY APPLN. INFO.:			US 1998-208277	A2 19981208
			US 1999-288594	A2 19990408
			US 1999-410568	A2 19991001
			US 1999-426571	A2 19991022
			US 1999-454684	A2 19991203
			US 2000-556877	A2 20000419
			US 2000-598419	A2 20000620
			US 2000-620412	A2 20000720
			WO 2000-US32919	W 20001204
			US 2001-841132	A1 20010423

ED Entered STN: 15 Aug 2002

AB Compds. and methods for the diagnosis and treatment of Chlamydial infection are disclosed. The compds. provided include polypeptides that contain at least one antigenic portion of a Chlamydia antigen and DNA sequences encoding such polypeptides. Pharmaceutical compns. and vaccines comprising such polypeptides or DNA sequences are also provided, together with antibodies directed against such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of Chlamydial infection in patients and in biol. samples.

IC ICM A61K038-00
ICS A61K039-395; A61K039-00; C07H021-02; C07H021-04; G01N033-53

INCL 514002000

CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 9

IT Antigen-presenting cell
B cell (lymphocyte)
Blood analysis
Blood plasma
Blood serum
Chlamydia
Chlamydia pneumoniae
Chlamydia trachomatis
DNA sequences
Dendritic cell
Drug delivery systems
Dyes
Fibroblast
Fluorescent substances
Immunostimulants
Immunotherapy
Labels
Luminescent substances
Macrophage
Molecular cloning
Monocyte
Nucleic acid hybridization
PCR (polymerase chain reaction)
Particles
Protein sequences
T cell (lymphocyte)
Urine analysis
Vaccines
(Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection)

IT Antigens
Fusion proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(MOMP (major outer membrane protein), **chimeric**; Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection)

IT 448312-07-0P 448312-08-1P 448312-09-2P 448312-10-5P 448312-11-6P
448312-12-7P 448312-13-8P 448312-14-9P 448312-15-0P 448312-16-1P
448313-47-1P 448313-69-7P 448313-70-0P 448313-71-1P 448313-72-2P
448313-83-5P 448313-85-7P 448313-88-0P 448313-90-4P 448313-92-6P
448313-94-8P 448313-95-9P 448313-96-0P **448314-03-2P**
448314-04-3P 448314-05-4P 448314-06-5P 448314-07-6P 448314-08-7P
448314-17-8P 448314-18-9P 448314-19-0P 448314-20-3P
448314-21-4P 448314-22-5P 448314-23-6P 448314-24-7P 448314-26-9P
448314-28-1P 448314-53-2P 448314-54-3P 448314-55-4P 448314-56-5P
448314-57-6P 448314-58-7P 448314-59-8P 448314-60-1P 448314-61-2P
448314-62-3P 448314-63-4P 448314-64-5P 448314-65-6P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 13 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:461199 CAPLUS
DOCUMENT NUMBER: 137:32059
TITLE: Proteins and genes from Mycobacterium vaccae and methods for treatment and diagnosis of mycobacterial infections
INVENTOR(S): Tan, Paul; Visser, Elizabeth; Prestidge, Ross; Watson, James D.
PATENT ASSIGNEE(S): Genesis Research and Development Corporation Limited, N. Z.
SOURCE: U.S., 147 pp., Cont.-in-part of U.S. Ser. No. 95,855. CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6406704	B1	20020618	US 1998-205426	19981204
US 6284255	B1	20010904	US 1996-705347	19960829
US 6001361	A	19991214	US 1997-873970	19970612 <--
US 5985287	A	19991116	US 1997-997362	19971223 <--
US 6160093	A	20001212	US 1998-95855	19980611 <--
CA 2315539	AA	19990701	CA 1998-2315539	19981223 <--
WO 9932634	A2	19990701	WO 1998-NZ189	19981223 <--

WO 9932634 A3 19991202
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9918936	A1	19990712	AU 1999-18936		19981223 <--
AU 746311	B2	20020418			
BR 9814432	A	20001010	BR 1998-14432		19981223 <--
EP 1044273	A2	20001018	EP 1998-963665		19981223 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
TR 200001948	T2	20010221	TR 2000-200001948		19981223
JP 2002514385	T2	20020521	JP 2000-525553		19981223
NZ 505834	A	20021220	NZ 1998-505834		19981223
IN 188709	A	20021026	IN 2000-CA231		20000419
NO 2000003261	A	20000822	NO 2000-3261		20000622 <--
PRIORITY APPLN. INFO.:			US 1996-705347	A2	19960829
			US 1997-873970	A2	19970612
			US 1997-997362	A2	19971223
			US 1998-95855	A2	19980611
			US 1997-996624	A	19971223
			US 1997-997080	A	19971223
			IN 1998-CA242	A	19980216
			US 1998-156181	A	19980917
			US 1998-205426	A	19981204
			WO 1998-NZ189	W	19981223

ED Entered STN: 20 Jun 2002

AB The present invention provides polypeptides comprising an immunogenic portion of a Mycobacterium vaccae protein and DNA mols. encoding such polypeptides, together with methods for their use in the diagnosis and treatment of mycobacterial infection, including M. tuberculosis and M. avium. The invention is further related to compds. that function as non-specific immune response amplifiers, and the use of such nonspecific immune response amplifiers as adjuvants in vaccination or immunotherapy against infectious disease, and in certain treatments for immune disorders and cancer. Methods for enhancing the immune response to an antigen including administration of M. vaccae culture filtrate, delipidated M. vaccae cells, or delipidated and deglycolipidated M. vaccae cells are also provided.

IC ICM A61K039-04
ICS A61K032-02; G12N001-12

INCL 424248100

CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 6, 10

IT Antibacterial agents
DNA sequences
Immunostimulants
Mycobacterium avium
Mycobacterium tuberculosis
Mycobacterium vaccae
Protein sequences
Tuberculosis
Tuberculostatics
Vaccines
(proteins and genes from Mycobacterium vaccae and methods for treatment

and diagnosis of mycobacterial infections)

IT **Fusion** proteins (**chimeric** proteins)
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(proteins and genes from Mycobacterium vaccae and methods for treatment and diagnosis of mycobacterial infections)

IT 437129-88-9 437129-90-3 437129-93-6 437129-94-7 437129-96-9
437129-98-1 437130-00-2 437130-02-4 437130-04-6 **437130-06-8**
437130-07-9 437130-09-1 437130-11-5 437130-13-7 437130-14-8
437130-17-1 437130-19-3 437130-21-7 437130-23-9 437130-25-1
437130-27-3 437130-29-5 437130-31-9 437130-34-2 437130-35-3
437130-37-5 437130-39-7 437130-41-1 437130-43-3 437130-46-6
437130-47-7 437130-49-9 437130-51-3 437130-54-6 437130-56-8
437130-58-0 437130-60-4 437130-62-6 437130-64-8 437130-66-0
437130-68-2 437130-70-6 437130-72-8 437130-74-0 437130-76-2
437130-78-4 437130-85-3 437130-87-5 437130-91-1 437130-92-2
437130-93-3
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; proteins and genes from Mycobacterium vaccae and methods for treatment and diagnosis of mycobacterial infections)

IT 437134-78-6 437134-79-7 437134-80-0 437134-81-1 437134-82-2
437134-83-3 437134-84-4 437134-98-0 437135-09-6 437135-23-4
RL: PRP (Properties)
(unclaimed **protein sequence**; proteins and genes from Mycobacterium vaccae and methods for treatment and diagnosis of mycobacterial infections)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 14 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:172435 CAPLUS
DOCUMENT NUMBER: 136:211966
TITLE: Cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins
INVENTOR(S): Ruben, Steven M.; Birse, Charles E.; Duan, Roxanne D.; Soppet, Daniel R.; Rosen, Craig A.; Shi, Yanggu; Lafleur, David W.; Olsen, Henrik; Ebner, Reinhard; Florence, Kimberly A.; Ni, Jian; Young, Paul
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 263 pp., Cont.-in-part of Appl. No. PCT/US00/15187.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002028449	A1	20020307	US 2000-726643	20001201
WO 2000075375	A1	20001214	WO 2000-US15187	20000602 <--

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002183503	A1	20021205	US 2002-42141	20020111
US 2005010042	A1	20050113	US 2004-919272	20040817
PRIORITY APPLN. INFO.:			US 1999-137725P	P 19990607
			WO 2000-US15187	A2 20000602
			US 2000-726643	A1 20001201
			US 2002-42141	A1 20020111

ED Entered STN: 08 Mar 2002

AB The present invention relates to 26 novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Tissue distribution, sequence homologies, and preferred epitope sites are provided for the secreted proteins, as well as chromosomal mapping of some of the genes. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins in bacterial, insect, and mammalian cells. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins. High-throughput screening assays are also provided for various putative activities of the secreted proteins.

IC ICM C12Q001-68
ICS C07H021-02; C07H021-04; C12P021-02; C12N009-00

INCL 435006000

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 63

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**fusion** products; cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins)

IT **Protein sequences**
(of 26 human secreted proteins)

IT 402699-23-4P 402699-24-5P 402699-25-6P 402699-26-7P 402699-27-8P
402699-28-9P 402699-29-0P 402699-30-3P 402699-31-4P 402699-32-5P
402699-33-6P 402699-34-7P 402699-35-8P 402699-36-9P 402699-37-0P
402699-38-1P 402699-39-2P 402699-40-5P 402699-41-6P 402699-42-7P
402699-43-8P 402699-44-9P 402699-45-0P 402699-46-1P
402699-47-2P 402699-48-3P 402699-49-4P 402699-50-7P
402699-51-8P 402699-52-9P 402699-53-0P 402699-54-1P 402699-55-2P
402699-56-3P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins)

IT 402702-41-4 402702-50-5 402702-51-6 402702-52-7 402702-53-8
402702-54-9 402702-55-0 402702-56-1 402702-57-2 402702-58-3
402702-59-4 402702-60-7 402702-61-8 402702-62-9 402702-63-0
402702-64-1 402702-65-2 402702-66-3 402702-67-4 402702-68-5
402702-69-6 402702-70-9 402702-71-0 402702-72-1 402702-73-2
402702-74-3 402702-75-4 402702-76-5 402702-77-6 402702-79-8
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402702-86-7 402702-87-8 402702-88-9 402702-89-0 402702-90-3
402702-91-4 402702-92-5 402702-93-6 402702-94-7 402702-95-8
402702-96-9 402702-97-0 402702-98-1 402702-99-2 402703-00-8
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402703-06-4 402703-07-5 402703-08-6 402703-09-7 402703-10-0
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402703-28-0 402703-29-1 402703-30-4 402703-31-5 402703-32-6
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402703-38-2 402703-39-3 402703-40-6 402703-41-7 402703-42-8
402703-43-9 402703-44-0 402703-45-1 402703-46-2 402703-47-3
RL: PRP (Properties)
(unclaimed **protein sequence**; cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins)

L33 ANSWER 15 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:90102 CAPLUS
DOCUMENT NUMBER: 136:146183
TITLE: Nucleic acid and protein compositions and methods for the diagnosis and treatment of disorders involving angiogenesis
INVENTOR(S): Baker, Kevin P.; Ferrara, Napoleone; Gerber, Hanspeter; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Hillan, Kenneth J.; Marsters, Scot A.; Pan, James; Paoni, Nicholas F.; Stephan, Jean-Philippe F.; Watanabe, Colin K.; Williams, P. Mickey; Wood, William I.; Ye, Weilan
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 567 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008284	A2	20020131	WO 2001-US21735	20010709
WO 2002008284	A3	20030313		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
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NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
WO 2001009327	A2	20010208	WO 2000-US20710	20000728
WO 2001009327	A3	20010802		
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US 6642024 B1 20031104 US 2000-643657 20000817
WO 2001016319 A2 20010308 WO 2000-US23522 20000823
WO 2001016319 A3 20011004
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CA 2481691 AA 20010308 CA 2000-2481691 20000824
CA 2481731 AA 20010308 CA 2000-2481731 20000824
CA 2481756 AA 20010308 CA 2000-2481756 20000824
CA 2481788 AA 20010308 CA 2000-2481788 20000824
WO 2001016318 A2 20010308 WO 2000-US23328 20000824
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CA 2390685 AA 20010712 CA 2000-2390685 20001108
WO 2001049715 A2 20010712 WO 2000-US30952 20001108
WO 2001049715 A3 20020404
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WO 2001040465 A2 20010607 WO 2000-US30873 20001110
WO 2001040465 A3 20020321
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AU 2001068028 A5 20010924 AU 2001-68028 20001129
US 2002058309 A1 20020516 US 2001-866028 20010525
US 6642360 B2 20031104
CA 2419541 AA 20020228 CA 2001-2419541 20010530
JP 2004520811 T2 20040715 JP 2002-522282 20010530
EP 1309685 A2 20030514 EP 2001-951036 20010709
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2002192659 A1 20021219 US 2001-902853 20010710

US 2003044839	A1	20030306	US 2001-902903	20010710
US 2003054400	A1	20030320	US 2001-902692	20010710
US 2003003530	A1	20030102	US 2001-904011	20010711
US 2003017463	A1	20030123	US 2001-903640	20010711
US 2003044793	A1	20030306	US 2001-903786	20010711
US 2003054401	A1	20030320	US 2001-903520	20010711
US 2003054349	A1	20030320	US 2001-903943	20010711
US 2002160374	A1	20021031	US 2001-905291	20010712
US 2003036060	A1	20030220	US 2001-904859	20010712
US 2003039969	A1	20030227	US 2001-904786	20010712
US 2003054441	A1	20030320	US 2001-905056	20010712
US 2003036094	A1	20030220	US 2001-904820	20010713
US 2003054351	A1	20030320	US 2001-904462	20010713
US 6878807	B2	20050412		
US 2003059828	A1	20030327	US 2001-904553	20010713
US 2003059829	A1	20030327	US 2001-905381	20010713
US 6818746	B2	20041116		
US 2003064367	A1	20030403	US 2001-904485	20010713
US 2003064923	A1	20030403	US 2001-905348	20010713
US 2003023054	A1	20030130	US 2001-906742	20010716
US 2003027143	A1	20030206	US 2001-906838	20010716
US 2003039971	A1	20030227	US 2001-906646	20010716
US 6852848	B2	20050208		
US 2003039972	A1	20030227	US 2001-906700	20010716
US 6723535	B2	20040420		
US 2002197671	A1	20021226	US 2001-907824	20010717
US 2002198366	A1	20021226	US 2001-907841	20010717
US 2003017498	A1	20030123	US 2001-908093	20010717
US 2003027145	A1	20030206	US 2001-907613	20010717
US 2003027146	A1	20030206	US 2001-907942	20010717
US 2003054352	A1	20030320	US 2001-907925	20010717
US 2002132240	A1	20020919	US 2001-909320	20010718
US 2002146709	A1	20021010	US 2001-909088	20010718
US 2003036061	A1	20030220	US 2001-909204	20010718
US 2003059772	A1	20030327	US 2001-909064	20010718
US 6818449	B2	20041116		
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
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WO 2002016602	A2	20020228	WO 2001-US26626	20010823
WO 2002016602	A3	20030206		
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AU 2001086785	A5	20020304	AU 2001-86785	20010823
US 2002161199	A1	20021031	US 2001-938418	20010823
EP 1311668	A2	20030521	EP 2001-966255	20010823
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JP 2004520810	T2	20040715	JP 2002-522275	20010823
EP 1341814	A2	20030910	EP 2001-985272	20010829
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US 2003073129	A1	20030417	US 2001-946374	20010904

AU	2002016610	A5	20020402	AU 2002-16610	20010919
US	2003203446	A1	20031030	US 2001-210028	20011018
US	2003104536	A1	20030605	US 2001-166709	20011019
US	2003180867	A1	20030925	US 2001-145089	20011019
US	2003186365	A1	20031002	US 2001-145017	20011019
US	2003186368	A1	20031002	US 2001-164728	20011019
US	2003190701	A1	20031009	US 2001-145124	20011019
US	2003190703	A1	20031009	US 2001-160502	20011019
US	2003190321	A1	20031009	US 2001-165247	20011019
US	2003194780	A1	20031016	US 2001-164829	20011019
US	2003194781	A1	20031016	US 2001-164929	20011019
US	2003207803	A1	20031106	US 2001-143026	20011019
US	2003170254	A1	20030911	US 2001-17191	20011024
US	2003187241	A1	20031002	US 2001-13926	20011025
US	2003199021	A1	20031023	US 2001-13924	20011025
US	2003119055	A1	20030626	US 2001-997585	20011115
US	2003119001	A1	20030626	US 2001-998041	20011115
US	2003124531	A1	20030703	US 2001-997614	20011115
US	2003134284	A1	20030717	US 2001-997529	20011115
US	2003224358	A1	20031204	US 2001-997641	20011115
US	2003194760	A1	20031016	US 2001-991150	20011116
US	2003130182	A1	20030710	US 2001-989862	20011119
US	2003139329	A1	20030724	US 2001-989725	20011120
US	2003180836	A1	20030925	US 2001-12064	20011207
US	6953841	B2	20051011		
US	2003083462	A1	20030501	US 2001-13913	20011210
US	2003186318	A1	20031002	US 2001-13909	20011210
US	2003187192	A1	20031002	US 2001-13910	20011210
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WO 1998-US25108	A	19981201
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US 1998-216021	B1	19981216
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US 1998-113300P	P	19981222
US 1998-218517	B1	19981222
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US 1998-113605P	P	19981223
US 1998-113621P	P	19981223
US 1998-114140P	P	19981223
WO 1999-US106	A	19990105
US 1999-115552P	P	19990112

US	1999-116843P	P	19990122
WO	1999-US30911	A	19990220
US	1999-254311	A1	19990303
WO	1999-US5028	A1	19990308
WO	1999-US5190	A	19990310
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US	1999-123957P	P	19990312
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US	1999-125778P	P	19990323
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US	1999-127035P	P	19990331
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US	1999-131291P	P	19990427
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US	1999-131445P	P	19990428
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US	1999-132379P	P	19990504
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US	1999-311832	A1	19990514
WO	1999-US10733	A	19990514
US	1999-135750P	P	19990525
WO	1999-US12252	A1	19990602
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US	1999-141037P	P	19990623
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US	1999-146836P	P	19990803
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US	1999-146850P	P	19990803
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US 1999-149395P	P	19990817
US 1999-149396P	P	19990817
US 1999-149412P	P	19990817
US 1999-380137	B1	19990825
US 1999-380138	B1	19990825
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US 1999-380142	B1	19990825
US 1999-151616P	P	19990831
US 1999-151689P	P	19990831
US 1999-151733P	P	19990831
US 1999-151735P	P	19990831
US 1999-151798P	P	19990831
US 1999-151799P	P	19990831
WO 1999-US20111	W	19990901
US 1999-920594	A	19990908
WO 1999-US20594	A	19990908
WO 1999-US20944	W	19990913
US 1999-153857P	P	19990914
US 1999-153904P	P	19990914
US 1999-921090	A	19990915
WO 1999-US21090	W	19990915
WO 1999-US21194	A	19990915
WO 1999-US21547	A	19990915

ED Entered STN: 01 Feb 2002

AB Nucleic acid and protein compns. and methods are disclosed for stimulating or inhibiting angiogenesis and/or cardiovascularization in mammals, including humans. Thus, 187 cDNAs and their encoded protein sequences isolated from human cDNA libraries are identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. The pharmaceutical compns. are based on polypeptides or antagonists thereto that have been identified for one or more of these uses. Disorders that can be diagnosed, prevented, or treated by the compns. herein include trauma such as wounds, various cancers, and disorders of the vessels including atherosclerosis and cardiac hypertrophy. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention, and to methods for producing the polypeptides of the present invention.

IC C07K014-475

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 9, 13, 63

IT Epitopes
(**chimeric** proteins containing; nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fragments, **chimeric** proteins containing Fc region; nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

IT Angiogenesis
Angiogenesis inhibitors
Antitumor agents
Cardiovascular agents
Cardiovascular system, disease
Gene therapy
Human

Mammalia
Molecular cloning
Protein sequences
cDNA sequences
(nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

L33 ANSWER 16 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:895574 CAPLUS
DOCUMENT NUMBER: 136:52707
TITLE: Methods for the treatment of immunologically-mediated skin disorders
INVENTOR(S): Watson, James D.; Tan, Paul L. J.; Prestidge, Ross
PATENT ASSIGNEE(S): Genesis Research & Development Corp. Ltd., N. Z.
SOURCE: U.S., 116 pp., Cont.-in-part of U.S. 5,968,524.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6328978	B1	20011211	US 1999-324542	19990602
US 5968524	A	19991019	US 1997-997080	19971223 <--
IN 188709	A	20021026	IN 2000-CA231	20000419
US 2003007976	A1	20030109	US 2001-880505	20010613
PRIORITY APPLN. INFO.:			US 1997-997080 A2	19971223
			IN 1998-CA242 A	19980216
			US 1999-324542 A2	19990602

ED Entered STN: 12 Dec 2001
AB Methods for the treatment of skin disorders, including psoriasis, atopic dermatitis, allergic contact dermatitis, alopecia areata and skin cancers are provided, such methods comprising administering a composition having antigenic and/or adjuvant properties. Compns. which may be usefully employed in the inventive methods include inactivated M. vaccae cells, delipidated and deglycolipidated M. vaccae cells, M. vaccae culture filtrate and compds. present in or derived therefrom, together with combinations of such compns.
IC ICM A61K045-00
ICS A61K039-04; A61K039-02; A61K039-38; A61K038-00
INCL 424282100
CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 63
IT DNA sequences
Dermatitis
Immunotherapy
Melanoma
Molecular cloning
Mycobacterium vaccae
Protein sequences
Psoriasis
Skin, disease
Skin, neoplasm
Vaccines
(inactivated or delipidated and deglycolipidated Mycobacterium vaccae or antigens for treatment of immunol.-mediated skin disorders)
IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(inactivated or delipidated and deglycolipidated Mycobacterium vaccae or antigens for treatment of immunol.-mediated skin disorders)
IT 380693-94-7 380693-95-8 380693-96-9 380693-97-0 380694-01-9
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380694-19-9 380694-26-8 380694-44-0 380694-45-1 380694-48-4
380694-49-5 380694-52-0
RL: PRP (Properties)

(unclaimed **protein sequence**; methods for the treatment of immunol.-mediated skin disorders)
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 17 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:693506 CAPLUS
DOCUMENT NUMBER: 135:268240
TITLE: Secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues
INVENTOR(S): Baker, Kevin P.; Chen, Jian; Desnoyers, Luc; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Pan, James; Smith, Victoria; Watanabe, Colin K.; Wood, William I.; Zhang, Zemin
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 774 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 2001068848	A2	20010920	WO 2001-US6520	20010228	
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US 6642360         B2    20031104
US 2003199034      A1    20031023    US 2001-156846          20010528
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AU 759004          B2    20030403    AU 2001-57765           20010801
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AU	2001084906	A5	20020304	AU 2001-84906	20010814
CA	2420193	AA	20020228	CA 2001-2420193	20010823
WO	2002016602	A2	20020228	WO 2001-US26626	20010823
WO	2002016602	A3	20030206		

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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
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CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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US 2005202475	A1	20050915	US 2005-38328	20050118
US 2005244852	A1	20051103	US 2005-40638	20050121
US 2005272058	A1	20051208	US 2005-42889	20050124
US 2005176046	A1	20050811	US 2005-46650	20050128
US 2005170458	A1	20050804	US 2005-50154	20050202
US 2005176104	A1	20050811	US 2005-52503	20050204
US 2005136515	A1	20050623	US 2005-56802	20050211
US 2005136475	A1	20050623	US 2005-60652	20050216
US 2005164279	A1	20050728	US 2005-60240	20050216
US 2005260622	A1	20051124	US 2005-67573	20050225
JP 2005224245	A2	20050825	JP 2005-54646	20050228
US 2005250136	A1	20051110	US 2005-78280	20050310
US 2005158830	A1	20050721	US 2005-80062	20050314
US 2005260632	A1	20051124	US 2005-84458	20050316
JP 2005245460	A2	20050915	JP 2005-118817	20050415
JP 2005253468	A2	20050922	JP 2005-118579	20050415
JP 2005253469	A2	20050922	JP 2005-118701	20050415
JP 2005261437	A2	20050929	JP 2005-119030	20050415

JP 2005270107	A2	20051006	JP 2005-118968		20050415
US 2005214846	A1	20050929	US 2005-117757		20050427
US 2005266461	A1	20051201	US 2005-124327		20050506
PRIORITY APPLN. INFO.:			WO 2000-US5601	W	20000301
			WO 2000-US5841	W	20000302
			US 2000-187202P	P	20000303
			US 2000-186968P	P	20000306
			US 2000-189320P	P	20000314
			US 2000-189328P	P	20000314
			WO 2000-US6884	W	20000315
			US 2000-190828P	P	20000321
			US 2000-191007P	P	20000321
			US 2000-191048P	P	20000321
			US 2000-191314P	P	20000321
			US 2000-192655P	P	20000328
			US 2000-193032P	P	20000329
			US 2000-193053P	P	20000329
			WO 2000-US8439	W	20000330
			US 2000-194449P	P	20000404
			US 2000-194647P	P	20000404
			US 2000-195975P	P	20000411
			US 2000-196000P	P	20000411
			US 2000-196187P	P	20000411
			US 2000-196690P	P	20000411
			US 2000-196820P	P	20000411
			US 1997-63564P	P	19971028
			US 1997-63870P	P	19971031
			US 1997-66120P	P	19971121
			US 1997-67411P	P	19971203
			US 1997-69278P	P	19971211
			US 1997-69334P	P	19971211
			US 1997-69335P	P	19971211
			US 1997-69425P	P	19971212
			US 1997-69694P	P	19971216
			US 1997-69696P	P	19971216
			US 1997-69702P	P	19971216
			US 1997-69870P	P	19971217
			US 1997-69873P	P	19971217
			US 1997-68017P	P	19971218
			US 1998-70440P	P	19980105
			US 1998-74086P	P	19980209
			US 1998-74092P	P	19980209
			US 1998-75945P	P	19980225
			US 1998-81071P	P	19980408
			US 1998-82704P	P	19980422
			US 1998-83742P	P	19980430
			US 1998-84366P	P	19980505
			US 1998-85339P	A1	19980513
			US 1998-85579P	P	19980515
			US 1998-85697P	P	19980515
			US 1998-87098P	P	19980528
			US 1998-87106P	P	19980528
			US 1998-88326P	P	19980604
			US 1998-88217P	P	19980605
			US 1998-88655P	P	19980609
			US 1998-89947P	P	19980619
			US 1998-90435P	P	19980624
			US 1998-90540P	P	19980624
			US 1998-90676P	P	19980625
			US 1998-90678P	P	19980625

US	1998-105413	B1 19980626
US	1998-91544P	P 19980701
US	1998-91626P	P 19980702
US	1998-91982P	P 19980707
US	1998-94651P	A1 19980730
US	1998-97022P	P 19980818
US	1998-97974P	P 19980826
US	1998-98821P	P 19980902
AU	1998-93881	A3 19980914
WO	1998-US19330	W 19980916
US	1998-101922P	P 19980924
AU	1998-93178	A3 19981002
US	1998-168978	B1 19981007
WO	1998-US21141	A 19981007
US	1998-105169P	P 19981022
US	1998-63561P	P 19981028
US	1998-187368	A1 19981106
WO	1998-US25108	W 19981201
US	1998-202054	A1 19981207
US	1998-112514P	P 19981215
US	1998-112850P	P 19981216
US	1998-216021	B1 19981216
US	1998-113296P	P 19981222
US	1998-113300P	P 19981222
US	1998-218517	B1 19981222
US	1998-113430P	P 19981223
US	1998-113605P	P 19981223
US	1998-113621P	P 19981223
US	1998-114140P	P 19981223
US	1999-115552P	P 19990112
US	1999-116843P	P 19990122
US	1999-254311	A1 19990303
WO	1999-US5028	W 19990308
US	1999-123618P	P 19990310
US	1999-123957P	P 19990312
US	1999-125774P	P 19990323
US	1999-125775P	P 19990323
US	1999-125778P	P 19990323
US	1999-125826P	P 19990324
US	1999-127035P	P 19990331
US	1999-127706P	P 19990405
US	1999-128849P	P 19990412
US	1999-129122P	P 19990413
US	1999-292404	A1 19990414
WO	1999-US8615	W 19990420
US	1999-130359P	P 19990421
US	1999-131270P	P 19990427
US	1999-131272P	P 19990427
US	1999-131291P	P 19990427
US	1999-131293P	P 19990427
US	1999-131445P	P 19990428
US	1999-132371P	P 19990504
US	1999-132379P	P 19990504
US	1999-132383P	P 19990504
US	1999-134287P	P 19990514
US	1999-311832	A1 19990514
WO	1999-US10733	W 19990514
US	1999-135750P	P 19990525
WO	1999-US12252	W 19990602
US	1999-138166P	P 19990608

US	1999-141037P	P	19990623
US	1999-144758P	P	19990720
US	1999-144791P	P	19990720
US	1999-145698P	P	19990726
US	1999-146222P	P	19990728
US	1999-146970P	P	19990803
US	1999-149395P	P	19990817
US	1999-380137	A1	19990825
US	1999-380138	A1	19990825
US	1999-380139	B1	19990825
US	1999-380142	B1	19990825
US	1999-151689P	P	19990831
US	1999-151736P	P	19990831
US	1999-151791P	P	19990831
WO	1999-US20111	W	19990901
US	1999-920594	A	19990908
WO	1999-US20594	W	19990908
US	1999-153805P	P	19990914
US	1999-153806P	P	19990914
US	1999-153856P	P	19990914
US	1999-153857P	P	19990914
US	1999-153904P	P	19990914
US	1999-397342	A1	19990915
US	1999-921090	A	19990915
WO	1999-US21090	A	19990915
CA	1999-2344465	A3	19991005
US	1999-403297	B1	19991018
US	1999-160407P	P	19991019
US	1999-160408P	P	19991019
US	1999-403844	A1	19991027
US	1999-162506P	P	19991029
US	1999-164495P	P	19991109
US	1999-164499P	P	19991109
US	1999-164500P	P	19991109
US	1999-423844	B1	19991112
US	1999-166360P	P	19991116
US	1999-166363P	P	19991116
US	1999-166364P	P	19991116
WO	1999-US28313	W	19991130
WO	1999-US28409	W	19991130
WO	1999-US28301	W	19991201
EP	1999-960644	A3	19991202
WO	1999-US28551	W	19991202
WO	1999-US28565	A1	19991202
US	1999-169495P	P	19991207
US	1999-170262P	P	19991209
WO	1999-US30095	W	19991216
US	1999-99309	A	19991220
US	1999-468978	A1	19991221
WO	1999-US30720	W	19991222
WO	1999-US31274	W	19991230
WO	2000-US219	A	20000105
US	2000-175481P	P	20000111
WO	2000-US3565	W	20000211
WO	2000-US4341	A1	20000218
WO	2000-US4342	A1	20000218
US	2000-441400	A	20000222
WO	2000-US4414	W	20000222
WO	2000-US5004	A	20000224
WO	2000-US6471	W	20000309

US 2000-191015P	P	20000321
WO 2000-US7532	W	20000321
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-199654P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
WO 2000-US13705	A2	20000517
WO 2000-US14042	A1	20000522
WO 2000-US15264	W	20000602
US 2000-209832P	P	20000605
US 2000-212901P	P	20000620
US 2000-213807P	P	20000622
US 2000-219556P	P	20000720
US 2000-220585P	P	20000725
US 2000-220605P	P	20000725
US 2000-220607P	P	20000725
US 2000-220624P	P	20000725
US 2000-220638P	P	20000725
US 2000-220664P	P	20000725
US 2000-220666P	P	20000725
US 2000-220893P	P	20000726
WO 2000-US20710	W	20000728
US 2000-222425P	P	20000801
US 2000-227133P	P	20000822
US 2000-644848	A1	20000822
WO 2000-US23522	W	20000823
CA 2000-2380355	A3	20000824
JP 2001-520864	A3	20000824
US 2000-644610	A1	20000824
WO 2000-US23328	W	20000824
US 2000-229896P	P	20000901
US 2000-230621P	P	20000905
US 2000-232887P	P	20000915
US 2000-664610	A	20000918
US 2000-665350	A	20000918
US 2000-235147P	P	20000922
US 2000-235451P	P	20000926
US 2000-690189	A3	20001016
US 2000-242922P	P	20001024
US 2000-709238	A	20001108
WO 2000-US30952	W	20001108
WO 2000-US30873	W	20001110
US 2000-253646P	P	20001128
WO 2000-US32678	W	20001201
US 2000-747259	A	20001220
US 2001-747259	B1	20001220
WO 2000-US34956	W	20001220
US 2001-261878P	P	20010112
US 2001-261910P	P	20010116
US 2001-261939P	P	20010116
US 2001-262150P	P	20010116
US 2001-767609	A	20010122
US 2001-267623P	P	20010209
US 2001-796498	A	20010228
WO 2001-US6520	W	20010228
WO 2001-US6666	W	20010301
US 2001-274399P	P	20010309

US 2001-802706	A	20010309
US 2001-808689	A	20010314
US 2001-816744	A	20010322

ED Entered STN: 21 Sep 2001

AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 305 cDNAs encoding human secreted or transmembrane proteins were identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. These transcripts for these proteins are overexpressed in various cancerous tissues, including adrenal, lung, colon, breast, prostate, rectal, cervical, and liver tumors. Certain of the proteins stimulate release of tumor necrosis factor-α from human blood, and also stimulate proliferation or differentiation of chondrocytes. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IC ICM C12N015-12
ICS C12N015-62; C07K014-47; C07K014-705; C07K016-18; G01N033-53; C12Q001-68

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 14

IT Antibodies
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT Adrenal gland, neoplasm
Liver, neoplasm
Lung, neoplasm
Molecular cloning
Neoplasm
Protein sequences
Tumor markers
cDNA sequences
(secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT 151185-21-6 160575-51-9 185229-04-3 200145-68-2 202669-30-5
203876-08-8 204868-81-5 205704-98-9, Protein (human Th1 cell-specific)
208065-42-3, Protein (human gene LU103) 208472-38-2 208668-52-4
208668-58-0 209209-94-9, Protein (human gene ASP1) 209334-83-8
209859-57-4 210044-19-2 211749-90-5 212704-82-0 213464-65-4
213471-70-6, Protein zsig32 (human) 213474-05-6 214684-34-1
217795-43-2, Protein (human clone HP10230) 217795-45-4, Protein (human clone HP10408) 217795-48-7, Protein (human clone HP10419) 218438-77-8, Protein LS170 (human clone 1355520IH) 218948-50-6 219709-98-5
220104-93-8, Protein DC3 (human dendritic cells) 220483-73-8
220710-70-3 220793-26-0, Protein PIGR-1 (human) 221079-13-6
221216-74-6 221266-03-1 221369-75-1 221369-76-2 221369-81-9
221455-95-4 221877-69-6 221877-79-8 221877-95-8 221878-41-7
221879-04-5 221879-28-3 221879-33-0 221890-47-7 221896-58-8
223415-76-7, Protein PRO358 (human clone DNA47361) 224301-63-7
224302-02-7 225373-34-2 226934-74-3 226934-79-8 226934-81-2

227792-85-0 230288-46-7 233272-65-6, Glypican 6 (human) 235087-98-6
235088-04-7 235787-35-6 242794-87-2 242794-89-4 242795-08-0
242795-28-4 242795-30-8 242795-45-5 **242795-93-3**
242796-09-4 242796-11-8 242796-13-0 243122-08-9
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243123-25-3 243123-45-7 243646-92-6, Protein (human prostate 371-amino acid) 244004-81-7 244028-85-1 249610-95-5 249619-76-9, Peflin (human fetus) 251100-02-4, Interleukin 21 (human) 251926-73-5
251929-75-6 252049-74-4 252049-82-4 252049-85-7 252049-94-8
252050-03-6 252050-18-3 252050-28-5 252050-31-0 252050-35-4
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252197-45-8 252197-48-1 252197-51-6 252197-53-8 252197-91-4
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253579-88-3 255888-96-1 259519-97-6 260237-14-7 260342-54-9
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260342-60-7 260382-23-8 260382-24-9 260382-30-7 260382-31-8
260534-87-0 260534-88-1 260534-90-5 260534-93-8
260534-95-0 260534-98-3 260534-99-4 260535-00-0 260535-03-3
260535-06-6 260535-07-7 260535-09-9 260535-10-2 260535-11-3
260535-12-4 260535-16-8 260535-18-0 260535-19-1 260535-21-5
260535-22-6 260535-24-8 260535-25-9 260535-28-2 260535-29-3
260535-30-6 260535-31-7 260535-32-8 260535-33-9 260535-34-0
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260535-45-3 260535-46-4 260535-47-5 260535-48-6 260535-50-0
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294899-53-9 297277-25-9 297774-88-0 297774-92-6 297774-95-9
297774-96-0 299466-36-7, Protein CGI-31 (human) 300425-62-1
301252-54-0 303809-45-2 304029-43-4 312333-93-0 312334-32-0, Protein PRO3301 (human clone DNA88002) 312334-52-4, Cytokine zsig81 (human) 313408-13-8 314326-52-8 314326-55-1 317394-09-5
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RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

L33 ANSWER 18 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:630862 CAPLUS
DOCUMENT NUMBER: 135:207462
TITLE: Domains of polyketide synthase from Sorangium cellulosum
INVENTOR(S): Gustafsson, Claes; Betlach, Mary C.; Ashley, Gary; Julien, Bryan; Ziermann, Rainer
PATENT ASSIGNEE(S): Kosan Bioscience, USA
SOURCE: U.S., 72 pp., Cont.-in-part of U.S. 6,090,601. CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6280999	B1	20010828	US 1998-144085	19980831
US 6090601	A	20000718	US 1998-10809	19980123 <--
US 2003054547	A1	20030320	US 2001-942025	20010828
PRIORITY APPLN. INFO.:			US 1998-10809 A2	19980123
			US 1998-144085 A2	19980831
			US 2001-271245P P	20010215

ED Entered STN: 30 Aug 2001
AB A 33,529-bp DNA mol. isolated from Sorangium cellulosum SMP44 encodes the multifunctional proteins which direct polyketide synthesis. The DNA contains 2 open reading frames, and various modules and submodules encoding the various enzymic activities are identified. Addnl., chimeric polyketide synthases that include domains, or subsets of domains, patterned on the polyketide synthases are provided. Methods to prepare polyketide combinatorial libraries are described, as are recombinant host cells in which polyketides are produced.
IC ICM C12N001-20
ICS C12N015-00; C12N005-00; C12N009-00; C07H021-04
INCL 435252300
CC 7-5 (Enzymes)
Section cross-reference(s): 3, 10
IT Combinatorial library
DNA sequences
Molecular cloning
Protein sequences
Sorangium cellulosum
(domains of polyketide synthase from Sorangium cellulosum)
IT Enzymes, properties
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(**fusion** products; domains of polyketide synthase from Sorangium cellulosum)
IT **357361-43-4DP**, subfragments are claimed **357361-44-5DP**, subfragments are claimed
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(amino acid sequence; domains of polyketide synthase from Sorangium cellulosum)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 19 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:449908 CAPLUS
DOCUMENT NUMBER: 135:60161
TITLE: **Fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture
INVENTOR(S): Dunn, John J.; Luft, Benjamin J.
PATENT ASSIGNEE(S): Research Foundation State University of New York, USA; Brookhaven Science Associates
SOURCE: U.S., 267 pp., Cont.-in-part of U.S. Ser. No. 148,191, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6248562	B1	20010619	US 1994-235836	19940429
CA 2175567	AA	19950511	CA 1994-2175567	19941027 <--
WO 9512676	A1	19950511	WO 1994-US12352	19941027 <--
W: AU, CA, FI, JP, NO				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9481274	A1	19950523	AU 1994-81274	19941027 <--
EP 726955	A1	19960821	EP 1995-900453	19941027 <--
EP 726955	B1	20040407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 263836	E	20040415	AT 1995-900453	19941027
PT 726955	T	20040831	PT 1995-900453	19941027
ES 2219657	T3	20041201	ES 1995-900453	19941027
ZA 9408551	A	19950703	ZA 1994-8551	19941031 <--
US 2004033236	A1	20040219	US 2003-369100	20030218
US 2005271682	A1	20051208	US 2005-196475	20050803

PRIORITY APPLN. INFO.:		
US 1993-148191	B2	19931101
US 1994-235836	A	19940429
WO 1994-US12352	W	19941027
US 2000-226484P	P	20000818
US 2000-666017	B2	20000919
WO 2001-US24736	A1	20010807
US 2003-369100	A3	20030218

ED Entered STN: 21 Jun 2001

AB Chimeric genes for fusion proteins of at least two antigenic polypeptides from one or more species of Borrelia are described for manufacture of the antigens for vaccines against borreliosis. The proteins are also useful as immunodiagnostic reagents. The antigenic peptides may be from the same or different larger proteins and may be from different species. The outer surface protein OspA was purified and antigenic domains mapped with monoclonal antibodies. A immunol. important hypervariable region of OspA was identified. The cloning of genes for a number of outer surface proteins and their use in the construction of chimeric genes is described.

IC ICM A61K039-02

INCL 435069300

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 3, 10

ST Borrelia antigen **fusion** protein vaccine diagnostic; Lyme disease vaccine **fusion** protein

IT Vaccines
(Lyme disease; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT DNA sequences
(for outer surface proteins of Borrelia burgdorferi and their **fusion** products; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Borrelia
Borrelia burgdorferi
Lyme disease
(**fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT **Chimeric** gene
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Lipoproteins
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospA, purification of, manufacture of **fusion** products of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Lipoproteins
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospB, purification of, manufacture of **fusion** products of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospC; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospD; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT **Protein sequences**
(of outer surface proteins of Borrelia burgdorferi and their **fusion** products; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospA, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospB, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospC, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospD, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p12, gene for, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p39, gene for, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p41, gene for, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p66, gene for, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p93, gene for, cloning of; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 132989-37-8, Protein (Borrelia burgdorferi plasmid clone pTRH32 gene ospA)
132989-38-9, Protein (Borrelia burgdorferi plasmid clone pTRH32 gene ospB)
138756-62-4, Antigen p 100 (Borrelia burgdorferi strain PKo)
147095-30-5, Lipoprotein (Borrelia burgdorferi strain 25015 gene ospA)
167360-62-5 167360-66-9 167360-68-1 167360-70-5 167360-72-7
167360-74-9 167974-11-0 169592-83-0 345920-36-7 345920-37-8
345920-38-9 345920-48-1
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 167360-78-3P 167360-80-7P 167360-82-9P 167360-84-1P 167360-86-3P
167360-88-5P 167360-90-9P 167360-92-1P 167360-94-3P 167360-96-5P
167360-98-7P 167361-00-4P 167361-02-6P 345920-43-6P 345920-44-7P
345920-45-8P 345920-46-9P
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT **147258-55-7**, Flagellin (Borrelia burgdorferi strain P/Gau)
345920-47-0
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 147258-57-9, Flagellin (Borrelia burgdorferi strain ATCC 35210 clone pET7HIS.2)
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 167360-79-4
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 133020-32-3, Deoxyribonucleic acid (Borrelia burgdorferi plasmid clone

pTRH32 gene ospB) 153266-47-8 153266-48-9 153266-50-3 153266-51-4
167360-60-3 167360-61-4 167360-64-7 167360-65-8 167360-67-0
167360-69-2 167360-71-6 167360-73-8 167360-75-0 167360-76-1
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(nucleotide sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 147258-56-8P, DNA (Borrelia burgdorferi strain ATCC 35210 clone pET7HIS.2 flagellin gene) 167361-04-8P 345920-39-0P 345920-40-3P
345920-41-4P 345920-42-5P
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 133020-31-2, DNA (Borrelia burgdorferi plasmid clone pTRH32 gene ospA)
142757-03-7, DNA (Borrelia burgdorferi strain P/Gau flagellin gene)
166944-21-4 166944-22-5 166944-23-6 166944-24-7 166944-25-8
166944-27-0 166944-29-2 166944-30-5 166944-31-6 166944-32-7
166944-33-8 166944-34-9 166944-35-0
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(nucleotide sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 166944-20-3
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 152472-66-7 167360-77-2 167360-81-8 167360-83-0 167360-85-2
167360-87-4 167360-89-6 167360-91-0 167360-93-2 167360-95-4
167360-97-6 167360-99-8 167361-01-5 167361-03-7 167361-05-9
167361-06-0
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 184250-21-3 345920-56-1 345920-57-2 345920-58-3 345920-59-4
345920-60-7 345920-61-8 345920-62-9 345920-63-0 345920-64-1
345920-65-2 345920-66-3 345920-67-4 345920-68-5 345920-69-6
345920-70-9 345920-71-0 345920-72-1 345920-73-2 345920-74-3
345920-75-4 345920-76-5 345920-77-6 345920-78-7 345920-79-8
345920-80-1 345920-81-2 345920-82-3 345920-83-4 345920-84-5
345920-85-6 345920-86-7 345920-87-8 345920-88-9 345920-89-0
345920-90-3 345920-91-4 345920-92-5 345920-93-6 345920-94-7
345920-95-8 345920-96-9 345920-97-0 345920-98-1 345920-99-2
345921-00-8 345921-01-9 345921-02-0
RL: PRP (Properties)
(unclaimed nucleotide sequence; **fusion** proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 20 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:449905 CAPLUS
DOCUMENT NUMBER: 135:60160
TITLE: Immunogenic compositions against Helicobacter infection, polypeptides for use in the compositions and nucleic acid sequences encoding said polypeptides
INVENTOR(S): Labigne, Agnes; Suerbaum, Sebastien; Ferrero, Richard L.; Thiberge, Jean Michel
PATENT ASSIGNEE(S): Institut Pasteur, Fr.
SOURCE: U.S., 93 pp., Cont.-in-part of WO9426901.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6248330	B1	20010619	US 1995-432697	19950502
WO 9514093	A1	19950526	WO 1993-EP3259	19931119 <--
W: JP				
WO 9426901	A1	19941124	WO 1994-EP1625	19940519 <--
W: AU, CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5843460	A	19981201	US 1995-467822	19950606 <--
US 6258359	B1	20010710	US 1995-466248	19950606
WO 9634624	A1	19961107	WO 1996-EP1834	19960502 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
AU 9656934	A1	19961121	AU 1996-56934	19960502 <--

PRIORITY APPLN. INFO.:		
EP 1993-401309	A	19930519
WO 1993-EP3259	W	19931119
WO 1994-EP1625	A2	19940519
US 1995-432697	A2	19950502
US 1995-447177	A1	19950519
WO 1996-EP1834	W	19960502

ED Entered STN: 21 Jun 2001
AB There is provided an immunogenic composition capable of inducing protective antibodies against Helicobacter infection characterized in that it comprises: i) at least one sub-unit of a urease structural polypeptide from Helicobacter pylori, or a fragment thereof, said fragment being recognized by antibodies reacting with Helicobacter felis urease, and/or at least one sub-unit of a urease structural polypeptide from Helicobacter felis, or a fragment thereof, said fragment being recognized by antibodies reacting with Helicobacter pylori urease; ii) and/or, a heat shock protein (Hsp), or chaperonin, from Helicobacter, or a fragment of said protein. The preparation, by recombinant means, of such immunogenic compns. is also provided.
IC A61K039-00
INCL 424192100
CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 9, 10
IT Proteins, specific or class
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(MBP (maltose-binding protein), **chimeric**; immunogenic compns.

comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT Affinity chromatography
Anion exchange chromatography
DNA sequences
Drug delivery systems
Helicobacter
Helicobacter felis
Helicobacter pylori
Mammal (Mammalia)
Molecular cloning
Protein sequences
(immunogenic compns. comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT Antigens
Fusion proteins (**chimeric** proteins)
Heat-shock proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(immunogenic compns. comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT 151187-40-5, Urease (Helicobacter felis strain ATCC 49179 gene ureB β-6 subunit reduced) 162243-37-0 162243-38-1 162243-40-5, Urease (Helicobacter felis gene ureA) 345920-03-8 **345920-06-1**
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; immunogenic compns. comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT 115681-99-7, Protein (Escherichia coli gene groES) 117537-95-8 127314-53-8, Urease (Proteus mirabilis clone pMID1003 γ-subunit protein moiety reduced) 142193-37-1, Protein (Helicobacter pylori clone pILL753 gene ureI reduced) 146635-40-7, Chaperonin 10 (Clostridium perfringens clone pCPH-2 gene groES) 162243-42-7, Urease (Helicobacter felis gene ureI) 244773-35-1 345920-26-5 **345920-27-6** **345920-28-7** 345920-29-8 345920-30-1 345920-31-2 345920-32-3 345920-33-4 345920-34-5 345920-35-6
RL: PRP (Properties)
(unclaimed **protein sequence**; immunogenic compns. against Helicobacter infection, polypeptides for use in the compns. and nucleic acid sequences encoding said polypeptides)

REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Claim 57

Agnes Rooke 10/015,956

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=> d his ful

     FILE 'REGISTRY' ENTERED AT 12:33:12 ON 19 DEC 2005
L1          1622 SEA ABB=ON  PLU=ON  (AG){1-8}PDG/SQSP
L2         29037 SEA ABB=ON  PLU=ON  (AG){1-8}DG/SQSP
                 SAV L1  AGNESCL57A/A
                 SAVE L2 AGNESCL57B/A
L3             8 SEA ABB=ON  PLU=ON  L1 AND SQL<50
L4           478 SEA ABB=ON  PLU=ON  L2 AND SQL<50

     FILE 'CAPLUS' ENTERED AT 12:35:54 ON 19 DEC 2005
L5           746 SEA ABB=ON  PLU=ON  L1
L6             7 SEA ABB=ON  PLU=ON  L3
L7        172739 SEA ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L8            54 SEA ABB=ON  PLU=ON  L7 AND L5
L9            10 SEA ABB=ON  PLU=ON  L8 AND PY<2001
                 D SCAN TI
L10        68727 SEA ABB=ON  PLU=ON  ARRAY#/OBI OR MICROARRAY?/OBI
L11          100 SEA ABB=ON  PLU=ON  L5 AND L10
L12            0 SEA ABB=ON  PLU=ON  L11 AND PY<2001
L13         5108 SEA ABB=ON  PLU=ON  L2
L14          515 SEA ABB=ON  PLU=ON  L13 AND L7
L15          143 SEA ABB=ON  PLU=ON  L14 AND PY<2001
L16          125 SEA ABB=ON  PLU=ON  L15 AND P/DT
L17         4411 SEA ABB=ON  PLU=ON  POLYANION?/OBI OR POLYCATION?/OBI
L18            0 SEA ABB=ON  PLU=ON  L5 AND L17
L19            8 SEA ABB=ON  PLU=ON  L13 AND L17
                 D SCAN
L20            1 SEA ABB=ON  PLU=ON  L19 AND PY<2001
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=> fil reg
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DICTIONARY FILE UPDATES:  18 DEC 2005  HIGHEST RN 870123-57-2

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
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for details.

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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html


=> d his l1-l4

L1          1622 S (AG){1-8}PDG/SQSP
L2         29037 S (AG){1-8}DG/SQSP
                 SAV L1  AGNESCL57A/A
                 SAVE L2 AGNESCL57B/A
L3             8 S L1 AND SQL<50
L4           478 S L2 AND SQL<50

=> fil caplus
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FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

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L1          1622 SEA FILE=REGISTRY ABB=ON  PLU=ON  (AG){1-8}PDG/SQSP
L5           746 SEA FILE=CAPLUS ABB=ON  PLU=ON  L1
L7        172739 SEA FILE=CAPLUS ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L8            54 SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L5
L9            10 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND PY<2001
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SEQ 1 ; 7

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L7        172739 SEA FILE=CAPLUS ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L13         5108 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
L14          515 SEA FILE=CAPLUS ABB=ON  PLU=ON  L13 AND L7
L15          143 SEA FILE=CAPLUS ABB=ON  PLU=ON  L14 AND PY<2001
L16          125 SEA FILE=CAPLUS ABB=ON  PLU=ON  L15 AND P/DT
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SEQ 1 ; 8

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L13          5108 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
L17          4411 SEA FILE=CAPLUS ABB=ON  PLU=ON  POLYANION?/OBI OR POLYCATION?/O
                  BI
L19             8 SEA FILE=CAPLUS ABB=ON  PLU=ON  L13 AND L17
L20             1 SEA FILE=CAPLUS ABB=ON  PLU=ON  L19 AND PY<2001
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SEQ 1 ; 8

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147

L9 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:772766 CAPLUS
DOCUMENT NUMBER: 133:330556
TITLE: Genome sequence and polypeptides of Pyrococcus abyssi and their uses
INVENTOR(S): Forterre, Patrick; Thierry, Jean-Claude; Prieur, Daniel; Dietrich, Jacques; Lecompte, Odile; Querellou, Joel; Weissenbach, Jean; Saurin, William; Heilig, Roland; Flament, Didier; Raffin, Jean-Paul; Henneke, Ghislaine; Gueguen, Yannick; Rolland, Jean-Luc
PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique (CNRS), Fr.; Institut Francais de Recherche pour l'Exploitation de la Mer - IFREMER
SOURCE: PCT Int. Appl., 1403 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000065062	A2	20001102	WO 2000-FR1065	20000421 <--
WO 2000065062	A3	20020214		
WO 2000065062	C2	20020906		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2792651	A1	20001027	FR 1999-5034	19990421 <--
FR 2792651	B1	20050318		
CA 2371253	AA	20001102	CA 2000-2371253	20000421 <--
EP 1196583	A2	20020417	EP 2000-922717	20000421
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2004500802	T2	20040115	JP 2000-614397	20000421

PRIORITY APPLN. INFO.: FR 1999-5034 A 19990421
WO 2000-FR1065 W 20000421

ED Entered STN: 03 Nov 2000

AB The invention relates to the genome sequence of Pyrococcus abyssi strain Orsay, the 807 open reading frame nucleotide sequences coding for polypeptides of P. abyssi such as polypeptides involved in metabolism or in the replication process, in addition to vectors including said sequences and cells transformed by said vectors. Replication factor C (large and small forms resulting from intein splicing),PCNA (proliferating cell nuclear antigen), DNA polymerase II large and small subunits, replication factor A, and DNA polymerase I were isolated and characterized by recombinant cloning in Escherichia coli. The invention also relates to methods using said nucleic acids or polypeptides, especially biosynthesis methods or biodegrdn. methods for mols. of interest and to kits comprising said polypeptides.

IC ICM C12N015-31
ICS C12N015-54; C12N015-55; C12N015-57; C12N015-60; C12N015-61; C12N015-62; C07K014-195; C07K019-00; C12N009-10; C12N009-12; C12N009-14; C12N009-16; C12N009-48; C12N009-88; C12N009-90; C12P001-00; C12P019-34; C12Q001-68; C12N001-21

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 10

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(genome sequence and polypeptides of Pyrococcus abyssi and their uses)

IT 302687-24-7 302687-25-8 302687-26-9 302687-27-0 302687-28-1
302687-29-2 302687-30-5 302687-31-6 302687-32-7 302687-33-8
302687-34-9 302687-35-0 302687-36-1 302687-37-2 302687-38-3
302687-39-4 302687-40-7 302687-41-8 302687-42-9 302687-43-0
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302687-54-3 302687-55-4 302687-56-5 302687-57-6 302687-58-7
302687-59-8 302687-60-1 302687-61-2 302687-62-3 302687-63-4
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302687-79-2 302687-80-5 302687-81-6 302687-82-7 302687-83-8
302687-84-9 302687-85-0 302687-86-1 302687-87-2 302687-88-3
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302867-73-8 302867-74-9 302867-75-0 302867-76-1 302867-77-2
302867-78-3 302867-79-4 302867-80-7 302867-81-8

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; genome sequence and polypeptides of Pyrococcus abyssi and their uses)

L9 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:819406 CAPLUS
DOCUMENT NUMBER: 132:60991
TITLE: Mitogen and stress-activated protein kinase-1 and MSK2 and their regulation and encoding polynucleotides
INVENTOR(S): Alessi, Dario; Deak, Maria; Cohen, Philip; Caivano, Matilde
PATENT ASSIGNEE(S): Medical Research Council, UK
SOURCE: PCT Int. Appl., 167 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 9967283 A2 19991229 WO 1999-GB1660 19990608 <--
WO 9967283 A3 20010412
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 9942730 A1 20000110 AU 1999-42730 19990608 <--
EP 1109918 A2 20010627 EP 1999-957169 19990608
R: DE, DK, FR, GB, IT, NL, SE
JP 2002518036 T2 20020625 JP 2000-555934 19990608
PRIORITY APPLN. INFO.: GB 1998-13467 A 19980624
GB 1998-17303 A 19980810
WO 1999-GB1660 W 19990608

ED Entered STN: 30 Dec 1999

AB Substantially pure two-kinase-domain protein kinases are provided and designated mitogen and stress-activated protein kinases-1 and -2 (MSK1 and MSK2). Their cDNA and deduced amino acid sequences are provided. MKS1 and MKS2 are activated in vitro and vivo by either the MAPK/ERK or SAPK2/p38 cascade systems, and appear to mediate the activation of transcription factors CREB and ATF1 by growth factors and stress signals. MSK1 is localized in the nucleus of cells and phosphorylates CREB at serine-133; a synthetic peptide corresponding to the sequence surrounding serine-133 is phosphorylated with a remarkably low Km value (<0.1 μM). The effects of SB203580 and PD98059 on the EGF, UV, and TNF-induced activation of CREB and ATF1 mirror the effects of these inhibitors on MSK1 activation. MSK1 and MSK2 may regulate the transcription of the genes for proinflammatory mediators cyclooxygenase-2 (COX2) and interleukin-1 and the induction of the proinflammatory COX2 protein. Variants, fusions, fragments, or derivs. thereof useful in screening assays for drugs are also provided, as are applications of the kinases in the modulation of CREB and COX2 activities..

IC ICM C07K014-00

CC 7-2 (Enzymes)
Section cross-reference(s): 3, 63

IT **Fusion** proteins (**chimeric** proteins)
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(mitogen and stress-activated protein kinase-1 and MSK2 and their regulation and encoding polynucleotides)

IT 219130-64-0 252974-31-5 **252974-33-7** 252974-34-8
RL: PRP (Properties)
(unclaimed protein sequence; mitogen and stress-activated protein kinase-1 and MSK2 and their regulation and encoding polynucleotides)

L9 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:613933 CAPLUS
DOCUMENT NUMBER: 131:224482
TITLE: Cloning and cDNA and deduced amino acid sequences of 95 human secreted proteins
INVENTOR(S): Ruben, Steven M.; Ni, Jian; Rosen, Craig A.; Yu, Guo-Liang; Young, Paul E.; Feng, Ping; Soppet, Daniel R.; Wei, Ying-Fei; Endress, Gregory A.; Duan, Roxanne D.; Kyaw, Hla; Ebner, Reinhard; Lafleur, David W.; Olsen, Henrik S.; Shi, Yanggu; Moore, Paul A.
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: PCT Int. Appl., 485 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9947540	A1	19990923	WO 1999-US5804	19990318 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9934517	A1	19991011	AU 1999-34517	19990317 <--
CA 2323761	AA	19990923	CA 1999-2323761	19990318 <--
EP 1064297	A1	20010103	EP 1999-916140	19990318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002506627	T2	20020305	JP 2000-536733	19990318
US 2003065139	A1	20030403	US 1999-397945	19990917
US 2004048304	A1	20040311	US 2003-653595	20030903

PRIORITY APPLN. INFO.:

US 1998-78563P	P	19980319
US 1998-78566P	P	19980319
US 1998-78573P	P	19980319
US 1998-78574P	P	19980319
US 1998-78576P	P	19980319
US 1998-78577P	P	19980319
US 1998-78578P	P	19980319
US 1998-78579P	P	19980319
US 1998-78581P	P	19980319
US 1998-80312P	P	19980401
US 1998-80313P	P	19980401
US 1998-80314P	P	19980401
WO 1999-US5804	W	19990318
US 1999-397945	A1	19990917

ED Entered STN: 26 Sep 1999

AB The present invention relates to 95 novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Tissue distribution, sequence homologies, and preferred epitope sites are provided for the secreted proteins, as well as chromosomal mapping of some of the genes. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins in bacterial, insect, and mammalian cells. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins. High-throughput screening assays are also provided for various putative activities of the secreted proteins.

IC ICM C07H021-04
ICS C07K001-00; C07K016-00; C12N015-00; C12N001-20; C12P021-06; A61K038-00; C12Q001-68; G01N033-53; G01N033-566

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 63

IT Immunoglobulins
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(**fusion** products; cloning and cDNA and deduced amino acid sequences of 95 human secreted proteins)

IT 243851-06-1 243851-07-2 243851-08-3 243851-09-4 243851-10-7
243851-11-8 243851-12-9 243851-14-1 243851-15-2 243851-16-3
243851-17-4 243851-18-5 243851-19-6 243851-20-9 243851-21-0
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243851-88-9 243851-89-0 243851-90-3 243851-91-4 243851-92-5
243851-93-6 243851-94-7 243851-96-9 243851-97-0
RL: PRP (Properties)
(unclaimed sequence; cloning and cDNA and deduced amino acid sequences of 95 human secreted proteins)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:549385 CAPLUS
DOCUMENT NUMBER: 131:166527
TITLE: Insecticidal toxins and their genes from Photorhabdus luminescens
INVENTOR(S): Kramer, Vance Cary; Morgan, Michael Kent; Anderson, Arne Robert; Hart, Hope Prim; Warren, Gregory Wayne; Dunn, Martha M.; Chen, Jeng Shong
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.
SOURCE: PCT Int. Appl., 148 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9942589	A2	19990826	WO 1999-EP1015	19990218 <--
WO 9942589	A3	19991223		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6281413	B1	20010828	US 1999-251645	19990217
CA 2320801	AA	19990826	CA 1999-2320801	19990218 <--
AU 9930286	A1	19990906	AU 1999-30286	19990218 <--
EP 1054972	A2	20001129	EP 1999-911676	19990218 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, FI

JP 2002504336	T2	20020212	JP 2000-532529		19990218
ZA 9901350	A	19990820	ZA 1999-1350		19990219 <--
PRIORITY APPLN. INFO.:			US 1998-27080	A	19980220
			US 1999-116439P	P	19990120
			US 1998-126433P	P	19980220
			US 1998-116439P	P	19990120
			WO 1999-EP1015	W	19990218

ED Entered STN: 31 Aug 1999

AB Novel nucleic acid sequences isolated from Photorhabdus luminescens, whose expression results in novel insecticidal toxins, are disclosed. Two large genomic segments containing multiple open reading frames encoding protein products with insecticidal activity are provided. The invention also discloses compns. and formulations containing the insecticidal toxins that are capable of controlling insect pests. The invention is further drawn to recombinant methods of making the toxins and to methods of using the nucleotide sequences, for example in microorganisms to control insect pests or in transgenic plants to confer insect resistance.

IC ICM C12N015-31
ICS C12N015-82; C12N015-10; C12N001-21; C12N005-10; A01H005-00; C07K014-24; A01N063-02

CC 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 3, 4, 10

IT **Chimeric** gene
RL: AGR (Agricultural use); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(insecticidal toxins and their genes from Photorhabdus luminescens)

IT 238083-09-5 238083-10-8 238083-11-9 238083-12-0 238083-13-1 238083-15-3 238083-16-4 **238083-17-5**
RL: AGR (Agricultural use); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; insecticidal toxins and their genes from Photorhabdus luminescens)

L9 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:165497 CAPLUS
DOCUMENT NUMBER: 128:214446
TITLE: Insecticidal protein toxins from Photorhabdus luminescens
INVENTOR(S): Ensign, Jerald C.; Bowen, David J.; Petell, James; Fatig, Raymond; Schoonover, Sue; Ffrench-Constant, Richard H.; Rocheleau, Thomas A.; Blackburn, Michael B.; Hey, Timothy D.; Merlo, Donald J.; Orr, Gregory L.; Roberts, Jean L.; et al.
PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA; Wisconsin Alumni Research Foundation
SOURCE: PCT Int. Appl., 321 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9808932	A1	19980305	WO 1997-US7657	19970505 <--

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,

SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
WO 9717432 A1 19970515 WO 1996-US18003 19961106 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
CA 2263819 AA 19980305 CA 1997-2263819 19970505 <--
AU 9728299 A1 19980319 AU 1997-28299 19970505 <--
EP 970185 A1 20000112 EP 1997-922696 19970505 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
BR 9711441 A 20001024 BR 1997-11441 19970505 <--
JP 2000515024 T2 20001114 JP 1998-511612 19970505 <--
TW 509722 B 20021111 TW 1997-86112391 19970828
MX 9901931 A 20000731 MX 1999-1931 19990226 <--
JP 2004089189 A2 20040325 JP 2003-197785 20030716
JP 3657593 B2 20050608
PRIORITY APPLN. INFO.: US 1996-705484 A 19960828
US 1996-743699 A 19961106
WO 1996-US18003 A 19961106
US 1995-7255P P 19951106
US 1996-608423 A 19960228
JP 1997-518369 A3 19961106
WO 1997-US7657 W 19970505

ED Entered STN: 20 Mar 1998

AB Proteins from the genus Photorhabdus are toxic to insects upon exposure. Photorhabdus luminescens (formerly Xenorhabdus luminescens) have been found in mammalian clin. samples and as a bacterial symbiont of entomopathogenic nematodes of genus Heterorhabditis. The native toxins are protein complexes that are produced and secreted by growing bacteria. The protein complexes, with a mol. size of .apprx.1000 kDa, can be separated by SDS-PAGE gel anal. into numerous component proteins. The toxins contain no hemolysin, lipase, type C phospholipase, or nuclease activities, but exhibit significant toxicity upon exposure administration to a number of insects. PCR cloning yielded gene sequences (tca, tcb, tcc, and tcd regions) encoding the insecticidal toxins from P. luminescens strain W-14 and several other strains. These protein toxins can be applied to, or genetically engineered into, insect larvae food and plants for insect control.

IC ICM C12N001-00
ICS C12N001-20; C12N015-00; C12N015-09; C12N015-10; C12N015-29; C12N015-31; C12N015-82; A01G013-00; A01H001-00; A01H003-00; A01H004-00; A01H005-00

CC 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 3, 4, 10

IT Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(DNA **chimeric** constructs containing; insecticidal protein toxin complex from Photorhabdus and cloning and expression of cDNAs encoding components)

IT 191289-67-5, Protein (Xenorhabdus luminescens gene tcaA insecticidal protein complex subunit TcaA) 191289-69-7, Protein (Xenorhabdus luminescens insecticidal protein complex subunit P8) 191289-71-1, 1-627-Protein (Xenorhabdus luminescens insecticidal protein complex

subunit P8) 191289-73-3, Protein (Xenorhabdus luminescens insecticidal protein complex subunit S8) **191289-75-5**, Protein (Xenorhabdus luminescens insecticidal protein complex 1485-amino acid subunit) 191289-76-6, DNA (Xenorhabdus luminescens insecticidal protein complex 1095-amino acid subunit gene) 191289-77-7, Protein (Xenorhabdus luminescens insecticidal protein complex 1095-amino acid subunit) 191289-78-8, 493-1095-Protein (Xenorhabdus luminescens insecticidal protein complex 1095-amino acid subunit) 191289-80-2, Protein (Xenorhabdus luminescens insecticidal protein complex 845-amino acid subunit)
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; insecticidal protein toxin complex from Photorhabdus and cloning and expression of cDNAs encoding components)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:546368 CAPLUS
DOCUMENT NUMBER: 125:187616
TITLE: Functionally active domains of signal transducer and activators of transcription (STAT) proteins
INVENTOR(S): Darnell, James E., Jr.; Wen, Zilong; Horvath, Curt M.; Zhong, Zhong
PATENT ASSIGNEE(S): The Rockefeller University, USA
SOURCE: PCT Int. Appl., 137 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620954	A2	19960711	WO 1995-US17025	19951228 <--
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5716622	A	19980210	US 1995-369796	19950106 <--
CA 2209604	AA	19960711	CA 1995-2209604	19951228 <--
AU 9645305	A1	19960724	AU 1996-45305	19951228 <--
US 5883228	A	19990316	US 1997-852091	19970506 <--
PRIORITY APPLN. INFO.:			US 1995-369796 A	19950106
			WO 1995-US17025 W	19951228

ED Entered STN: 13 Sep 1996
AB The present invention relates generally to intracellular receptor recognition proteins or factors, termed Signal Transducers and Activators of Transcription (STAT), to methods and composition utilizing such factors, and to the antibodies reactive toward them, in assays and for diagnosing, preventing and/or treating cellular debilitation, derangement, or dysfunction. More particularly, the present invention relates to particular functional domains of mols. that exhibit both receptor recognition and message delivery via DNA binding in receptor-ligand specific manner, i.e., that directly participate both in the interaction with the ligand-bound receptor at the cell surface and in the activity of

transcription in the nucleus as a DNA-binding protein. The invention likewise relates to the antibodies and other entities that are specific to the functional domain of a STAT and protein and that would thereby selectively modulate its activity. Thus, the high amino acid sequence identity between human Stat1 and Stat3, coupled with the inherent ability of Stat3 to distinguish between M67 and GRR promoter elements, made it possible to define the DNA-binding domain of the STAT proteins by exchanging regions between 2 proteins and assaying the substituted proteins for DNA site binding preference. The technique resulted in identifying residues 406-514 as capable of the transfer of binding specificity, since an activated Stat1 mol. containing residues 406-514 of Stat3 could bind only to the M67 probe and not to the GRR probe while activated STAT1 itself binds to both probes. Within these 108 amino acids, Stat1 and Stat3 have only 43 amino acid residues. Mutations targeted to the most conserved sequences (Glu434Glu435→Ala-Ala and/or Val461Val462Val463→Ala-Ala-Ala) in this domain have no effect on phosphorylation or dimerization of the STAT proteins, but reduce DNA binding. Amino acids in the 293-467 region of all the presently cloned STATs were analyzed to predict secondary structure motifs in the putative DNA-binding regions. In addition to the DNA-binding sites, the STAT proteins become activated by phosphorylation in response to polypeptide receptor interaction at the cell surface, e.g., interferon-γ for Stat1α, and interleukin-6 or epidermal growth factor for Stat3. Maximum Stat1α activation of genes required phosphorylation of both tyrosine-701 and serine-727.

IC ICM C07K014-47
ICS G01N033-68

CC 3-4 (Biochemical Genetics)
Section cross-reference(s): 13

IT Autoimmune disease
Disease
Infection
Inflammation
Neoplasm
Parasite
(treatment with **chimeric** or mutagenized STAT proteins; functionally active domains of signal transducer and activators of transcription (STAT) proteins)

IT 148349-37-5, Ribonucleic acid formation factor ISGF 3 (human clone E4 91-kilodalton α-subunit reduced) 148349-38-6, Ribonucleic acid formation factor ISGF 3 (human clone E3 84-kilodalton α-subunit reduced) 148349-39-7, Ribonucleic acid formation factor ISGF 3 (human clone f11/ka31 113-kilodalton α-subunit reduced) **156286-85-0** 164716-25-0 164716-27-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(functionally active domains of signal transducer and activators of transcription (STAT) proteins)

L9 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:332747 CAPLUS
DOCUMENT NUMBER: 125:1377
TITLE: Transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases
INVENTOR(S): Glimcher, Laurie H.; Zhou, Hong; Douhan, John, III
PATENT ASSIGNEE(S): President and Fellows of Harvard College, USA
SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 9606107	A1	19960229	WO 1995-US10691	19950822	<--
W: AU, CA, CN, FI, JP, KR, MX, NO, NZ, PL, RU, UA					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
US 5672473	A	19970930	US 1994-295502	19940824	<--
CA 2197233	AA	19960229	CA 1995-2197233	19950822	<--
CA 2197233	C	20010220			
AU 9534126	A1	19960314	AU 1995-34126	19950822	<--
AU 700235	B2	19981224			
EP 777677	A1	19970611	EP 1995-930911	19950822	<--
EP 777677	B1	20020612			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
CN 1164236	A	19971105	CN 1995-195840	19950822	<--
JP 10507908	T2	19980804	JP 1996-508279	19950822	<--
RU 2160447	C2	20001210	RU 1997-104477	19950822	<--
AT 219099	E	20020615	AT 1995-930911	19950822	
PT 777677	T	20021129	PT 1995-930911	19950822	
ES 2178677	T3	20030101	ES 1995-930911	19950822	
ZA 9507120	A	19960326	ZA 1995-7120	19950824	<--
FI 9700735	A	19970421	FI 1997-735	19970221	<--
NO 9700803	A	19970421	NO 1997-803	19970221	<--
PRIORITY APPLN. INFO.:			US 1994-295502	A 19940824	
			WO 1995-US10691	W 19950822	

ED Entered STN: 08 Jun 1996

AB Disclosed are methods of identifying compds. which inhibit transcription activation by CITA and thus inhibit MHC class II gene expression. Such compds. can affect the induction of an immune response. The methods employ, independently, the activation and interactions domains of CITA. The methods also employ the activation and interaction domains of isotype-specific CITA proteins, allowing for the identification of compds. which are isotype-specific inhibitors of transcription and which are useful for selectively affecting the immune system.

IC ICM C07H021-04
ICS C07K014-47; C12N015-12; C12Q001-02; C12Q001-68; G01N033-566

CC 1-7 (Pharmacology)
Section cross-reference(s): 3, 13, 15

ST human gene CIITA transcription factor sequence; autoimmune disease treatment CIITA **fusion** protein; immune suppressant CIITA **fusion** protein expression

IT Eukaryote
Prokaryote
(expression host cell; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Autoimmune disease
Immunosuppressants
Mutation
Plasmid and Episome
Protein sequences
(transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Ribonucleic acid formation factors

RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(α-transducing factor, **fusion** products with CIITA factor; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Lymphocyte
(B-cell, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Proteins, specific or class
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(DNA-binding, **fusion** products with CIITA factor; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Gene, animal
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(HLA-DQ, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HLA-DQ, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(MHC (major histocompatibility antigen complex), class II, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Gene, animal
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(Mhc, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Deoxyribonucleic acid sequences
(complementary, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Ribonucleic acid formation factors
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene GAL4, **fusion** products with CIITA factor; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Ribonucleic acid formation factors
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(gene lexA, **fusion** products with CIITA factor; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT Therapeutics
(geno-, transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT **152988-72-2P**
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

IT 177257-00-0
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(nucleotide sequence; transcription factor CIITA **fusion** products with DNA-binding proteins, **chimeric** gene expression, and immunosuppression for treating autoimmune diseases)

L9 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:777843 CAPLUS
DOCUMENT NUMBER: 123:164072
TITLE: **Fusion** enzyme containing cytochrome P450 17α and cytochrome P450 C25 and NADPH-cytochrome P450 reductase
INVENTOR(S): Sakaki, Toshuki; Akyoshi, Megumi; Yabusaki, Yoshasu
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07147975	A2	19950613	JP 1993-298279	19931129 <--
PRIORITY APPLN. INFO.:			JP 1993-298279	19931129

ED Entered STN: 07 Sep 1995
AB A recombinant fused gene was prepared by linking genes for cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase. The fused gene was expressed in recombinant yeasts (e.g. Saccharomyces, Schizosaccharomyces, and Candida). For example, Saccharomyces cerevisiae strain AH22 expressed this fused enzyme. The expressed enzyme associated with microsomes. This fused enzyme may be used in oxidation of toxic compds. in industrial waste water. The plasmid containing this fused gene was named pAFC25R.
IC ICM C12N009-02
ICS C12N001-19; C12N015-09
ICI C12N009-02, C12R001-865; C12N001-19, C12R001-865
CC 7-2 (Enzymes)
IT Gene, microbial
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(fused; **fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)

IT Saccharomyces
Saccharomyces cerevisiae
Schizosaccharomyces
Wastewater treatment
(**fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT Enzymes
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(**fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT Plasmid and Episome
(pAFC25R; **fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT **167470-66-8**
RL: PRP (Properties)
(amino acid sequence; **fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT 9029-67-8P, Steroid 17α-hydroxylase 9035-51-2P, Cytochrome p450, preparation 9039-06-9P, NADPH-cytochrome P 450 reductase 60202-07-5P, Steroid 25-hydroxylase
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(**fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT 167470-65-7
RL: PRP (Properties)
(nucleotide sequence; **fusion** enzyme containing cytochrome P 450 17α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)

L9 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:510130 CAPLUS
DOCUMENT NUMBER: 119:110130
TITLE: The complete DNA sequence of yeast chromosome III
AUTHOR(S): Oliver, S. G.; Van der Aart, Q. J. M.; Agostoni-Carbone, M. L.; Aigle, M.; Alberghina, L.; Alexandraki, D.; Antoine, G.; Anwar, R.; Ballesta, J. P. G.; et al.
CORPORATE SOURCE: Manchester Biotechnol. Cent., UMIST, Manchester, M60 1QD, UK
SOURCE: Nature (London, United Kingdom) (**1992**), 357(6373), 38-46
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 18 Sep 1993
AB The entire DNA sequence of chromosome III of the yeast Saccharomyces cerevisiae was determined This is the first complete sequence anal. of an entire chromosome from any organism. The 315-kilobase sequence reveals 182 open reading frames for proteins longer than 100 amino acids, of which 37 correspond to known genes and 29 more show some similarity to sequences in databases. Of 55 new open reading frames analyzed by gene disruption, 3 are essential genes; of 42 non-essential genes that were tested, 14 show some discernible effect on phenotype and the remaining 28 have no overt function.
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 7, 10
IT Gene, microbial

RL: BIOL (Biological study)
(BIK1, for nuclear **fusion** protein, of Saccharomyces cerevisiae chromosome III, nucleotide sequence and mapping of)

IT Gene, microbial
RL: BIOL (Biological study)
(FUS1, for cell **fusion** protein, of Saccharomyces cerevisiae chromosome III, nucleotide sequence and mapping of)

IT 119685-10-8, Protein (Saccharomyces cerevisiae gene RAD18 reduced) 123609-60-9 126731-60-0 128561-33-1, Protein ERS 1 (Saccharomyces cerevisiae reduced) 131201-25-7, Protein (Saccharomyces cerevisiae clone pYthr4 gene CTR86 reduced) 133105-78-9, Protein (Saccharomyces cerevisiae clone E5F 347-amino acid reduced) 133105-79-0, Protein (Saccharomyces cerevisiae clone E5F 394-amino acid reduced) 133105-80-3, Protein (Saccharomyces cerevisiae clone E5F 923-amino acid reduced) 133106-26-0 133758-76-6 135622-70-7, Protein (Saccharomyces cerevisiae clone YCpAER2 gene TUP1 reduced) 135930-80-2 139021-11-7, Protein (Saccharomyces cerevisiae clone E5F 138-kilodalton reduced) 144350-14-1 144998-38-9, Protein (Saccharomyces cerevisiae strain XJ24-24a gene ADP1 reduced) 146212-39-7, Protein (Saccharomyces cerevisiae clone P78 196-amino acid reduced) 146212-40-0, Protein (Saccharomyces cerevisiae clone P78 146-amino acid reduced) 146212-41-1, Protein (Saccharomyces cerevisiae clone P78 308-amino acid reduced) 146212-42-2, Protein (Saccharomyces cerevisiae clone P78 115-amino acid reduced) 146212-43-3, Protein (Saccharomyces cerevisiae clone P78 143-amino acid reduced) 146212-44-4, Protein (Saccharomyces cerevisiae clone P78 200-amino acid reduced) 146212-45-5, Protein (Saccharomyces cerevisiae clone P78 373-amino acid reduced) 146212-46-6, Protein (Saccharomyces cerevisiae clone P78 458-amino acid reduced) 146212-47-7, Protein (Saccharomyces cerevisiae clone P78 190-amino acid reduced) 146212-48-8, Factor α (Saccharomyces cerevisiae clone P78 gene HMLa2 reduced) 146212-49-9, Factor α (Saccharomyces cerevisiae clone P78 gene HMLa1) 146212-50-2, Protein (Saccharomyces cerevisiae clone P78 122-amino acid reduced) 146212-51-3 146212-52-4, Protein (Saccharomyces cerevisiae clone J10A 128-amino acid) 146212-53-5, Protein (Saccharomyces cerevisiae clone J10A 195-amino acid) 146212-54-6, Protein (Saccharomyces cerevisiae clone J10A 329-amino acid) 146212-55-7, Protein (Saccharomyces cerevisiae clone J10A 317-amino acid) 146212-56-8, Protein (Saccharomyces cerevisiae clone J10A 316-amino acid reduced) 146212-57-9, Protein (Saccharomyces cerevisiae clone J10A 152-amino acid reduced) 146212-58-0, Protein (Saccharomyces cerevisiae clone J10A 132-amino acid reduced) 146212-59-1, Protein (Saccharomyces cerevisiae clone J10A 712-amino acid reduced) 146212-60-4, Protein (Saccharomyces cerevisiae clone D10B 144-amino acid reduced) 146212-61-5, Protein (Saccharomyces cerevisiae clone D10B 335-amino acid reduced) 146212-62-6, Protein (Saccharomyces cerevisiae clone D10B/B9G 724-amino acid reduced) 146212-63-7, Protein (Saccharomyces cerevisiae clone B9G 134-amino acid reduced) 146212-64-8, Protein (Saccharomyces cerevisiae clone B9G 149-amino acid reduced) 146212-65-9, Protein (Saccharomyces cerevisiae clone B9G 416-amino acid reduced) 146212-66-0, Protein (Saccharomyces cerevisiae clone B9G 586-amino acid reduced) 146212-67-1, Protein (Saccharomyces cerevisiae clone A6C 312-amino acid reduced) 146212-68-2, Protein (Saccharomyces cerevisiae clone A6C 463-amino acid reduced) 146212-69-3, Protein (Saccharomyces cerevisiae clone A6C 127-amino acid reduced) 146212-70-6, Protein (Saccharomyces cerevisiae clone A6C 258-amino acid reduced) 146212-71-7, Protein (Saccharomyces cerevisiae clone A1G 760-amino acid reduced) 146212-72-8, Protein (Saccharomyces cerevisiae clone A1G 107-amino acid reduced) 146212-73-9, Protein (Saccharomyces cerevisiae clone A1G 417-amino acid) 146212-74-0, Protein (Saccharomyces cerevisiae clone A1G 148-amino acid) 146212-75-1, Protein (Saccharomyces cerevisiae clone A1G 164-amino acid

reduced) 146212-76-2, Protein (Saccharomyces cerevisiae clone A1G 118-amino acid reduced) 146212-77-3, Protein (Saccharomyces cerevisiae clone A1G/A4H 759-amino acid reduced) 146212-78-4, Protein (Saccharomyces cerevisiae clone A4H 528-amino acid reduced) 146212-79-5, Protein (Saccharomyces cerevisiae clone A4H 466-amino acid) 146212-80-8, Protein (Saccharomyces cerevisiae clone C1G 566-amino acid reduced) 146212-81-9, Protein (Saccharomyces cerevisiae clone C1G 110-amino acid reduced) 146212-82-0, Protein (Saccharomyces cerevisiae clone C1G 212-amino acid) 146212-83-1, Protein (Saccharomyces cerevisiae clone C1G 105-amino acid reduced) 146212-84-2, Protein (Saccharomyces cerevisiae clone C1G 168-amino acid reduced) 146212-85-3, Protein (Saccharomyces cerevisiae clone C1G 346-amino acid reduced) 146212-86-4, Protein (Saccharomyces cerevisiae clone C1G 297-amino acid reduced) 146212-87-5 146212-88-6, Protein (Saccharomyces cerevisiae clone C1G gene BIK1 reduced) 146212-89-7, Protein (Saccharomyces cerevisiae clone C1G 405-amino acid) 146212-90-0, Protein (Saccharomyces cerevisiae clone C1G 110-amino acid reduced) 146212-91-1, Glycoprotein (Saccharomyces cerevisiae clone C1G gene FUS1 reduced) 146212-92-2, Protein (Saccharomyces cerevisiae clone C1G 112-amino acid reduced) 146212-93-3, Protein (Saccharomyces cerevisiae clone C1G 192-amino acid reduced) 146212-94-4, Protein (Saccharomyces cerevisiae clone C1G 119-amino acid reduced) 146212-95-5, Protein (Saccharomyces cerevisiae clone C1G 633-amino acid reduced) 146212-96-6, Protein (Saccharomyces cerevisiae clone C1G 130-amino acid reduced) 146212-97-7, Protein (Saccharomyces cerevisiae clone C1G 115-amino acid reduced) 146212-98-8, Protein (Saccharomyces cerevisiae clone C1G 816-amino acid reduced) 146212-99-9, Protein (Saccharomyces cerevisiae clone A5C 171-amino acid reduced) 146213-00-5, Protein (Saccharomyces cerevisiae clone A5C 117-amino acid reduced) 146213-01-6, Protein (Saccharomyces cerevisiae clone A5C Ty2 element 438-amino acid reduced) 146213-02-7, Protein (Saccharomyces cerevisiae clone A5C/G4B Ty2 element 1347-amino acid reduced) 146213-03-8 146213-04-9, Protein (Saccharomyces cerevisiae clone G4B 103-amino acid) 146213-05-0, Protein (Saccharomyces cerevisiae clone G4B gene NFS1 reduced) 146213-06-1, Protein (Saccharomyces cerevisiae clone G4B 309-amino acid reduced) 146213-07-2, Protein (Saccharomyces cerevisiae clone D8B 994-amino acid reduced) 146213-08-3, Protein (Saccharomyces cerevisiae clone D8B 132-amino acid) 146213-09-4, Protein (Saccharomyces cerevisiae clone D8B 152-amino acid) 146213-10-7, Protein (Saccharomyces cerevisiae clone D8B 427-amino acid reduced) 146213-11-8, Protein (Saccharomyces cerevisiae clone D8B 146-amino acid) 146213-12-9, Protein (Saccharomyces cerevisiae clone D8B 309-amino acid reduced) 146213-13-0, Protein (Saccharomyces cerevisiae clone D8B 152-amino acid reduced) 146213-14-1, Protein (Saccharomyces cerevisiae clone C2G 119-amino acid) 146213-15-2, Protein (Saccharomyces cerevisiae clone C2G 130-amino acid reduced) 146213-16-3, Protein (Saccharomyces cerevisiae clone C2G 109-amino acid reduced) 146213-17-4, Protein (Saccharomyces cerevisiae clone C2G 254-amino acid reduced) 146213-18-5, Protein (Saccharomyces cerevisiae clone C2G 112-amino acid reduced) 146213-19-6, Protein (Saccharomyces cerevisiae clone C2G 153-amino acid reduced) 146213-20-9, Protein (Saccharomyces cerevisiae clone C2G 176-amino acid) 146213-21-0, Protein (Saccharomyces cerevisiae clone C2G 126-amino acid reduced) 146213-22-1, Protein (Saccharomyces cerevisiae clone C2G 241-amino acid reduced) 146213-23-2, Protein (Saccharomyces cerevisiae clone A2C 104-amino acid reduced) 146213-24-3, Protein (Saccharomyces cerevisiae clone A2C 322-amino acid) 146213-25-4, Protein (Saccharomyces cerevisiae clone D10H 183-amino acid reduced) **146213-26-5**, Protein (Saccharomyces cerevisiae clone D10H 247-amino acid reduced) 146213-27-6 146213-28-7, Protein (Saccharomyces cerevisiae clone D10H 157-amino acid reduced) 146213-29-8, Protein (Saccharomyces cerevisiae clone D10H 239-amino acid reduced) 146213-30-1, Protein (Saccharomyces

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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence of, complete)

L9 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:632040 CAPLUS
DOCUMENT NUMBER: 117:232040
TITLE: Genetically-engineered coccidiosis vaccine
INVENTOR(S): Jacobson, James W.; Strausberg, Robert L.; Wilson, Susan D.; Pope, Sharon H.; Strausberg, Susan Lee; Raether, Wolfgang
PATENT ASSIGNEE(S): Genex Corp., USA; Hoechst A.-G.
SOURCE: PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9204461	A1	19920319	WO 1991-US6431		19910905 <--
W: JP, US					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE					
EP 548252	A1	19930630	EP 1991-917491		19910905 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE					
JP 06504187	T2	19940519	JP 1991-516046		19910905 <--
PRIORITY APPLN. INFO.:			US 1990-581694	A2	19900912
			WO 1991-US6431	W	19910905

ED Entered STN: 13 Dec 1992
AB Recombinant antigenic proteins of avian coccidiosis, antigenic fragments of the proteins, genes encoding the polypeptides, and vaccines comprising the antigenic proteins or live transformed microorganism are disclosed. CDNA encoding antigen mc-4c of Eimeria maxima oocysts was identified and cloned and the nucleotide and amino acid sequences are presented. CDNAs for other antigens of E. maxima and of E. tenella were also cloned and sequenced.
IC ICM C12P021-00
ICS C12N001-20; C12N015-00; A61K039-00; C07H015-12
CC 15-2 (Immunochemistry)
Section cross-reference(s): 3
IT Proteins, specific or class
RL: BIOL (Biological study)
(**fusion** products, of antigen mc-30c of Eimeria maxima and β-galactosidase)
IT 9012-90-2D, **fusion** products
RL: BIOL (Biological study)
(MS-2, with antigen mc-30c of Eimeria maxima)
IT 144518-08-1, Antigen mc 4c (Eimeria maxima clone λmc-36c C-terminal fragment reduced) 144518-10-5, Antigen mc 5c (Eimeria maxima clone pGX5376 C-terminal fragment reduced) 144518-12-7, Antigen mc 30c (Eimeria maxima clone pGX5370 C-terminal fragment reduced) 144518-14-9, Antigen mc 35c (Eimeria maxima clone pGX5367 C-terminal fragment) 144518-16-1, Antigen tg 3e (Eimeria tenella clone pGX5390 12.7-kilodalton fragment) **144518-18-3**, Antigen tc 11e (Eimeria tenella clone

pGX5394 13.9-kilodalton fragment) 144518-20-7, Antigen tc 23g (Eimeria tenella clone pGX5398 C-terminal fragment) 144518-22-9, Antigen tc 26h (Eimeria tenella 10-kilodalton fragment) 144518-24-1, Antigen tc 30c (Eimeria tenella 9.5-kilodalton fragment) 144518-26-3, Antigen tc 32c (Eimeria tenella 8.8-kilodalton fragment) 144518-28-5, Antigen tc 33c (Eimeria tenella 12.5-kilodalton fragment) 144518-30-9, Antigen tc 35c (Eimeria tenella 5.0-kilodalton fragment) 144518-32-1, 1-147-Antigen mc 37c (Eimeria maxima)
RL: BIOL (Biological study)
(amino acid sequence of and cloning of gene for, coccidiosis vaccine in relation to)

IT 9031-11-2D, β-Galactosidase, **fusion** products
RL: BIOL (Biological study)
(with antigen mc-30c of Eimeria maxima)

THE ESTIMATED COST FOR THIS REQUEST IS 59.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L16 ANSWER 1 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:431457 CAPLUS
DOCUMENT NUMBER: 142:462276
TITLE: Tumor-associated target polypeptides for diagnosis and treatment
INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sakanaka, Chie; Chuntharapai, Anan; Reed, Chae Janeka
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107595	A1	20050519	US 2004-938061	20040910
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
CA 2481685	AA	20010308	CA 2000-2481685	20000824
CA 2481691	AA	20010308	CA 2000-2481691	20000824
CA 2481731	AA	20010308	CA 2000-2481731	20000824
CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801

AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003207803	A1	20031106	US 2001-143026	20011019
US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU 772759	B2	20040506	AU 2002-14767	20020201
AU 772723	B2	20040506	AU 2002-14769	20020201
AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
WO 2002101069	A3	20030904		
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EP 1402260	A2	20040331	EP 2002-731246	20020403
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JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003148438	A1	20030807	US 2002-145821	20020514
US 2003170788	A1	20030911	US 2002-145634	20020514
US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516
US 2004214269	A1	20041028	US 2002-147518	20020516
US 2003180875	A1	20030925	US 2002-147505	20020517
US 2003199027	A1	20031023	US 2002-152396	20020520
US 2005074837	A1	20050407	US 2002-158788	20020530
US 2003068695	A1	20030410	US 2002-192012	20020709
US 2003068696	A1	20030410	US 2002-192014	20020709
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US 2003059879	A1	20030327	US 2002-194456	20020712
US 2003064448	A1	20030403	US 2002-194484	20020712
US 2003049747	A1	20030313	US 2002-195899	20020715
US 2003064449	A1	20030403	US 2002-195884	20020715
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			US 1998-88217P	P	19980605
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			US 1998-89947P	P	19980619

US 1998-90676P	P	19980625
US 1998-91982P	P	19980707
US 1998-94651P	A1	19980730
US 1998-97022P	P	19980818
US 1998-97974P	P	19980826
AU 1998-93881	A3	19980914
AU 1998-93178	A3	19981002
US 1998-105169P	P	19981022
US 1998-63561P	P	19981028
US 1998-216021	B1	19981216
US 1998-218517	B1	19981222
US 1999-254311	A1	19990303
US 1999-131293P	P	19990427
US 1999-149395P	P	19990817
US 1999-380139	A1	19990825
US 1999-151689P	P	19990831
US 1999-920594	A	19990908
US 1999-921090	A	19990915
CA 1999-2344465	A3	19991005
EP 1999-960644	A3	19991202
US 1999-99309	A	19991220
US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-339227P	P	20011019
US 2001-336827P	P	20011107
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-331906P	P	20011120
WO 2001-US48938	W	20011213
US 2002-345444P	P	20020102
US 2002-52586	A1	20020115
US 2002-369724P	P	20020403
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719
US 2002-211858	A1	20020802

US 2002-404809P P 20020819
US 2002-241220 A1 20020911
US 2004-797366 A1 20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-44
ICS C07K016-18

INCL 530387300; 530388100

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; to tumor-associated target polypeptides)

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(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

L16 ANSWER 2 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:429313 CAPLUS
DOCUMENT NUMBER: 142:462273
TITLE: Tumor-associated target polypeptides for diagnosis and treatment
INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sliwkowski, Mark
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 337 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

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US 2005106644	A1	20050519	US 2004-936626	20040908	
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NZ 523206	A	20041224	NZ 2000-523206	20000211	
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NZ 517395	A	20040130	NZ 2000-517395	20000309	
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CA 2481756	AA	20010308	CA 2000-2481756	20000824	
CA 2481788	AA	20010308	CA 2000-2481788	20000824	
US 2002058309	A1	20020516	US 2001-866028	20010525	
US 6642360	B2	20031104			
CA 2419541	AA	20020228	CA 2001-2419541	20010530	

JP	2004520811	T2	20040715	JP 2002-522282	20010530
AU	758921	B2	20030403	AU 2001-57764	20010801
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CA	2420193	AA	20020228	CA 2001-2420193	20010823
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AU	772723	B2	20040506	AU 2002-14769	20020201
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AU	778585	B2	20041209	AU 2002-14753	20020201
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US 1999-920594	A	19990908
US 1999-921090	A	19990915
CA 1999-2344465	A3	19991005
EP 1999-960644	A3	19991202
US 1999-99309	A	19991220
US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-339227P	P	20011019
US 2001-336827P	P	20011107
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-331906P	P	20011120
WO 2001-US48938	W	20011213
US 2002-345444P	P	20020102
US 2002-52586	A1	20020115
US 2002-369724P	P	20020403
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718

	US 2002-199464	B1 20020719
	US 2002-211858	A1 20020802
	US 2002-404809P	P 20020819
	US 2002-241220	A1 20020911
	US 2004-797366	A1 20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-30
ICS G01N033-574; C07H021-04

INCL 435007230; 536023200; 530350000; 530388800

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric**; to tumor-associated target polypeptides)

IT 851740-35-7, Antigen TAT161 (human clone DNA77507) 851740-36-8, Antigen TAT101 (human clone DNA80894) 851740-37-9, Antigen TAT157 (human clone DNA82343) 851740-38-0, Antigen TAT160 (human clone DNA87994) 851740-39-1, Antigen TAT158 (human clone DNA88131) 851740-40-4, Antigen TAT110 (human clone DNA95930) 851740-41-5, Antigen TAT210 (human clone DNA95930-1) 851740-42-6, Antigen TAT159 (human clone DNA96917) 851740-43-7, Antigen TAT112 (human clone DNA96930) 851740-44-8, Antigen TAT147 (human clone DNA96936) 851740-45-9, Antigen TAT145 (human clone DNA98565) 851740-46-0, Antigen TAT152 (human clone DNA246435) 851740-47-1, Antigen TAT162 (human clone DNA98591) 851740-48-2, Antigen TAT114 (human clone DNA108809) 851740-49-3, Antigen TAT119 (human clone DNA119488) 851740-50-6, Antigen TAT103 (human clone DNA1143493) 851740-51-7, Antigen TAT130 (human clone DNA167234) 851740-52-8, Antigen TAT166 (human clone DNA235621) 851740-53-9, Antigen TAT132 (human clone DNA176766) 851740-54-0, Antigen TAT150 (human clone DNA236463) 851740-55-1, Antigen TAT129 (human clone DNA1) 851740-56-2, Antigen TAT111 (human clone DNA188221) 851740-57-3, Antigen TAT146 (human clone DNA233876) 851740-58-4, Antigen TAT148 (human clone DNA193891) 851740-59-5, Antigen TAT187 (human clone DNA248170) 851740-60-8, Antigen TAT118 (human clone DNA194628) 851740-61-9, Antigen TAT167 (human clone DNA246415) 851740-62-0, Antigen TAT123 (human clone DNA210499) 851740-63-1, Antigen TAT211 (human clone DNA219894) 851740-64-2, Antigen TAT113 (human clone DNA215609) 851740-65-3, Antigen TAT128 (human clone DNA220432) 851740-66-4, Antigen TAT164 (human clone DNA226094) 851740-67-5, Antigen TAT122 (human clone DNA226165) 851740-68-6, Antigen TAT117 (human clone DNA226237) 851740-69-7, Antigen TAT168 (human clone DNA246450) 851740-70-0, Antigen TAT144 (human clone DNA226456) 851740-71-1 851740-72-2, Antigen TAT126 (human clone DNA226539) 851740-73-3, Antigen TAT151 (human clone DNA236511) 851740-74-4, Antigen TAT115 (human clone DNA226771) 851740-75-5, Antigen TAT163 (human clone DNA227087) 851740-76-6, Antigen TAT227 (human clone DNA266307) 851740-77-7, Antigen TAT228 (human clone DNA266311) 851740-78-8, Antigen TAT229 (human clone DNA266312) 851740-79-9, Antigen TAT230 (human clone DNA266313) 851740-80-2, Antigen TAT121 (human clone DNA227224) 851740-81-3, Antigen TAT183 (human clone DNA247486) 851740-82-4, Antigen TAT165 (human clone DNA227578) 851740-83-5, Antigen TAT131 (human clone DNA227800) 851740-84-6, Antigen TAT140 (human clone DNA227904) 851740-85-7, Antigen TAT127

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

L16 ANSWER 3 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:122861 CAPLUS
DOCUMENT NUMBER: 142:214279
TITLE: Protein and cDNA sequences of a Glycine max 5,10-methylenetetrahydrofolate reductase and use
INVENTOR(S): Falco, Saverio Carl; Orozco, Emil M.; Famodu, Omolayo O.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 45 pp., Cont.-in-part of U.S. Ser. No. 720,451, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2005034176	A1	20050210	US 2003-658232		20030908
WO 2000004163	A1	20000127	WO 1999-US15916		19990714 <--
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
US 2002102689	A1	20020801	US 2001-903814		20010712
US 6680428	B2	20040120			
US 2004132150	A1	20040708	US 2003-723061		20031126
US 6838276	B2	20050104			
PRIORITY APPLN. INFO.:			US 1998-92869P	P	19980715
			WO 1999-US15916	W	19990714
			US 2000-720451	B2	20001221
			US 1999-351703	B3	19990712
			US 2001-903814	A3	20010712

ED Entered STN: 11 Feb 2005
AB This invention relates to isolated nucleic acid fragments encoding 5,10-methylenetetrahydrofolate reductase. The invention also relates to the construction of a recombinant DNA construct encoding all or a portion of the 5,10-methylenetetrahydrofolate reductase in sense or antisense orientation, wherein expression of the recombinant DNA construct results in production of altered levels of the 5,10-methylenetetrahydrofolate reductase in a transformed host cell.
IC ICM A01K067-00
ICS C07H021-04; C12N009-06
INCL 800008000; 435191000; 435069100; 435320100; 435325000; 536023200
CC 7-2 (Enzymes)
Section cross-reference(s): 3, 10
IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(protein and cDNA sequences of Glycine max 5,10-methylenetetrahydrofolate reductase and use)
IT 842985-79-9 842985-81-3 842985-83-5 842985-85-7 842985-86-8
842985-87-9 **842985-88-0** 842985-89-1 842985-90-4
RL: PRP (Properties)
(unclaimed protein sequence; protein and cDNA sequences of a Glycine max 5,10-methylenetetrahydrofolate reductase and use)

L16 ANSWER 4 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:857072 CAPLUS
DOCUMENT NUMBER: 141:326817
TITLE: Protein and cDNA sequences of a novel human brain-associated inhibitor of tissue-type plasminogen activator and therapeutic use
INVENTOR(S): Hastings, Gregg A.; Coleman, Timothy A.; Dillon, Patrick J.; Lawrence, Daniel A.; Sandkvist, Maria; Yepes, Manuel; Wong, Michael K. K.
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA; The American Red Cross
SOURCE: U.S. Pat. Appl. Publ., 133 pp., Cont.-in-part of U.S. Ser. No. 355,208.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
US 2004203101	A1	20041014	US 2004-752041		20040107	
US 6008020	A	19991228	US 1997-948997		19971010	<--
US 6191260	B1	20010220	US 1999-348817		19990708	
US 6541452	B1	20030401	US 2000-722292		20001128	
US 2002143165	A1	20021003	US 2001-957485		20010921	
US 2002165147	A1	20021107	US 2001-987021		20011113	
US 2004038880	A1	20040226	US 2003-355208		20030131	
PRIORITY APPLN. INFO.:			US 1996-28117P	P	19961011	
			US 1997-948997	A3	19971010	
			US 1999-123704P	P	19990310	
			US 1999-348817	A3	19990708	
			US 2000-521664	B1	20000308	
			US 2000-247971P	P	20001114	
			US 2000-722292	A2	20001128	
			US 2001-957485	B2	20010921	

US 2001-987021 B2 20011113
US 2003-355208 A2 20030131

ED Entered STN: 18 Oct 2004

AB The present invention relates to a novel BAIT protein which is a member of serpin superfamily which is expressed primarily in brain tissue. In particular, isolated nucleic acid mols. are provided encoding the human and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of BAIT activity. Also provided are diagnostic methods for detecting nervous system-related disorders and therapeutic methods for treating nervous system-related disorders. Addnl., the present invention is related to methods of treating patients with BAIT polynucleotides or polypeptides, wherein said patients have had seizures or epilepsy.

IC ICM C07H021-04
ICS C07K014-705

INCL 435069100; 435320100; 435325000; 530350000; 536023500

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 7, 13

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**chimeric**, to BAIT; protein and cDNA sequences of novel human brain-associated inhibitor of tissue-type plasminogen activator and therapeutic use)

IT 769650-46-6 769650-47-7 **769650-48-8** 769650-49-9
RL: PRP (Properties)
(unclaimed protein sequence; protein and cDNA sequences of a novel human brain-associated inhibitor of tissue-type plasminogen activator and therapeutic use)

L16 ANSWER 5 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:162569 CAPLUS
DOCUMENT NUMBER: 140:212061
TITLE: Protein and cDNA sequences for human tumor associated antigenic target proteins, and related compositions and methods for the diagnosis and treatment of tumor
INVENTOR(S): Desauvage, Frederic J.; Frantz, Gretchen; Hillan, Kenneth J.; Polakis, Paul; Polson, Andrew; Smith, Victoria; Spencer, Susan D.; Wu, Thomas D.; Zhang, Zemin
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 319 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016225	A2	20040226	WO 2003-US25892	20030819

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

NZ 528704	A	20050225	NZ 1999-528704	19990308	
CA 2450824	AA	20000420	CA 1999-2450824	19991005	<--
EP 1466977	A1	20041013	EP 2004-7618	19991202	

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY

NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
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CA 2481691	AA	20010308	CA 2000-2481691	20000824
CA 2481731	AA	20010308	CA 2000-2481731	20000824
CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003207803	A1	20031106	US 2001-143026	20011019
US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

AU 772759	B2	20040506	AU 2002-14767	20020201
AU 772723	B2	20040506	AU 2002-14769	20020201
AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
WO 2002101069	A3	20030904		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1402260	A2	20040331	EP 2002-731246	20020403

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003148438	A1	20030807	US 2002-145821	20020514
US 2003170788	A1	20030911	US 2002-145634	20020514
US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516
US 2004214269	A1	20041028	US 2002-147518	20020516
US 2003180875	A1	20030925	US 2002-147505	20020517
US 2003199027	A1	20031023	US 2002-152396	20020520
US 2005074837	A1	20050407	US 2002-158788	20020530
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US 2003068696	A1	20030410	US 2002-192014	20020709

US	2003049743	A1	20030313	US 2002-194394	20020711
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US	2003153037	A1	20030814	US 2002-194457	20020711
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US	2003104547	A1	20030605	US 2002-197701	20020717
US	2003104548	A1	20030605	US 2002-197706	20020717
US	2003207398	A1	20031106	US 2002-198759	20020718
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US	2003144498	A1	20030731	US 2002-289527	20021105
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US	2003224984	A1	20031204	US 2002-305654	20021126
US	2003199044	A1	20031023	US 2003-410552	20030408
CA	2495389	AA	20040226	CA 2003-2495389	20030819
EP	1578371	A2	20050928	EP 2003-788626	20030819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US	2004258710	A1	20041223	US 2004-791618	20040302
US	2004229277	A1	20041118	US 2004-872972	20040621
US	2004242860	A1	20041202	US 2004-872991	20040621
WO	2005003154	A2	20050113	WO 2004-US21353	20040702
WO	2005003154	C1	20050616		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,				

SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005170368	A1	20050804	US 2004-884070		20040702
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US 2005170396	A1	20050804	US 2005-36869		20050114
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US 2005170458	A1	20050804	US 2005-50154		20050202
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			US 2003-484959P	P	20030702
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			US 1998-63561P	P	19981028
			US 1998-216021	B1	19981216
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			US 1999-254311	A1	19990303
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			US 1999-151689P	P	19990831
			US 1999-920594	A	19990908
			US 1999-921090	A	19990915
			CA 1999-2344465	A3	19991005
			EP 1999-960644	A3	19991202
			US 1999-99309	A	19991220

US 2000-441400	A	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
CA 2000-2380355	A3	20000824
US 2000-232887P	P	20000915
US 2000-690189	A3	20001016
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-927796	B1	20010809
WO 2001-US26626	W	20010823
US 2001-323268P	P	20010918
US 2001-339227P	P	20011019
US 2001-336827P	P	20011107
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-331906P	P	20011120
WO 2001-US48938	W	20011213
US 2002-345444P	P	20020102
US 2002-52586	A1	20020115
US 2002-369724P	P	20020403
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-373160P	P	20020416
US 2002-125166	B2	20020417
WO 2002-US12206	A	20020417
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-378885P	P	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719
US 2002-211858	A1	20020802
US 2002-241220	A1	20020911
WO 2002-US28859	A	20020911
US 2003-411010	A1	20030410
WO 2003-US11148	A	20030410
US 2003-643795	A1	20030819
WO 2003-US25892	W	20030819
US 2003-712892	A2	20031112
WO 2003-US36298	A	20031113
US 2004-797366	A1	20040309
US 2004-983340	A2	20041105

ED Entered STN: 29 Feb 2004

AB The present invention is directed to compns. of matter useful for the diagnosis and treatment of tumor in mammals and to methods of using those compns. of matter for the same. Specifically disclosed are cDNA sequences (total 81) and corresponding encoded tumor associated antigenic target (TAT) proteins (total 77) identified in human.

IC ICM A61K
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 63
IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(**chimeric**, to TAT gene product; protein and cDNA sequences for human tumor associated antigenic target proteins, and related compns. and methods for diagnosis and treatment of tumor)

IT 663970-84-1P 663970-85-2P 663970-86-3P 663970-87-4P 663970-88-5P
663970-89-6P 663970-90-9P 663970-91-0P 663970-92-1P 663970-93-2P
663970-94-3P 663970-95-4P 663970-96-5P 663970-97-6P 663970-98-7P
663970-99-8P 663971-00-4P 663971-01-5P 663971-02-6P 663971-03-7P
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663971-14-0P 663971-15-1P 663971-16-2P 663971-17-3P 663971-18-4P
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663971-24-2P 663971-25-3P 663971-26-4P 663971-27-5P 663971-28-6P
663971-29-7P 663971-30-0P 663971-31-1P **663971-32-2P**
663971-33-3P 663971-34-4P 663971-35-5P 663971-36-6P 663971-37-7P
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663971-43-5P 663971-44-6P 663971-45-7P 663971-46-8P 663971-47-9P
663971-48-0P 663971-49-1P 663971-50-4P 663971-51-5P 663971-52-6P
663971-53-7P 663971-54-8P 663971-55-9P 663971-56-0P 663971-57-1P
663971-58-2P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; protein and cDNA sequences for human tumor associated antigenic target proteins, and related compns. and methods for diagnosis and treatment of tumor)

L16 ANSWER 6 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:162508 CAPLUS
DOCUMENT NUMBER: 140:213583
TITLE: Use of bacteriophage T4 tail fiber proteins for manufacture of nanostructures using staged-assembly
INVENTOR(S): Goldberg, Edward B.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 60 pp., Cont.-in-part of U.S. Ser. No. 136,225.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004039168	A1	20040226	US 2003-371073	20030221
US 5877279	A	19990302	US 1994-322760	19941013 <--
US 5864013	A	19990126	US 1995-542003	19951012 <--
US 6197139	B1	20010306	US 1999-226949	19990108
US 2003236390	A1	20031225	US 2002-136225	20020429
PRIORITY APPLN. INFO.:			US 1994-322760	A2 19941013
			US 1995-542003	A3 19951012
			US 1999-226949	A3 19990108
			US 2002-136225	A2 20020429
			KR 1998-367	A 19980109
			US 1999-236949	A3 19990125

ED Entered STN: 29 Feb 2004
AB Methods of using the gp34, gp35, gp36, and gp37 tail fiber proteins of bacteriophage T4 or fusion proteins in the formation of nanostructures that can be used in nanostructures is described. In particular, variants of the proteins that show altered patterns of interaction, thermolability of interaction, or geometry of interaction can be used to create an array of self-assembling structures.
IC ICM C07K014-005
ICS C12P021-06
INCL 530350000; 435068100
CC 9-16 (Biochemical Methods)
Section cross-reference(s): 6
IT **Fusion** proteins (**chimeric** proteins)
RL: NUU (Other use, unclassified); USES (Uses)
(of bacteriophage T4 tail fiber proteins;; use of bacteriophage T4 tail fiber proteins for manufacture of nanostructures using staged-assembly)
IT 664379-63-9 664379-64-0 664379-65-1 664379-66-2 **664379-67-3**
664379-80-0 664379-81-1
RL: PRP (Properties)
(unclaimed protein sequence; use of bacteriophage T4 tail fiber proteins for manufacture of nanostructures using staged-assembly)

L16 ANSWER 7 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:759252 CAPLUS
DOCUMENT NUMBER: 139:275728
TITLE: Human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers
INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 396 pp., Cont.-in-part of U.S. Ser. No. 6,867.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003181669	A1	20030925	US 2002-63570	20020502
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
WO 2000070050	A1	20001123	WO 2000-US7532	20000321 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				

DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA	2481685	AA	20010308	CA 2000-2481685	20000824
CA	2481691	AA	20010308	CA 2000-2481691	20000824
CA	2481731	AA	20010308	CA 2000-2481731	20000824
CA	2481756	AA	20010308	CA 2000-2481756	20000824
CA	2481788	AA	20010308	CA 2000-2481788	20000824
US	2002058309	A1	20020516	US 2001-866028	20010525
US	6642360	B2	20031104		
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US	2002102723	A1	20020801	US 2001-870574	20010530
US	6551799	B2	20030422		
JP	2004520811	T2	20040715	JP 2002-522282	20010530
AU	758921	B2	20030403	AU 2001-57764	20010801
AU	759004	B2	20030403	AU 2001-57765	20010801
CA	2420193	AA	20020228	CA 2001-2420193	20010823
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US	2003073129	A1	20030417	US 2001-946374	20010904
US	2003207803	A1	20031106	US 2001-143026	20011019
US	2003170254	A1	20030911	US 2001-17191	20011024
US	2003199021	A1	20031023	US 2001-13924	20011025
EP	1397383	A2	20040317	EP 2001-990229	20011213

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

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AU	772734	B2	20040506	AU 2002-14771	20020201
AU	778585	B2	20041209	AU 2002-14753	20020201
CA	2449602	AA	20021219	CA 2002-2449602	20020403
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WO	2002101069	A3	20030904		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP	1402260	A2	20040331	EP 2002-731246	20020403

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

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US	2003191288	A1	20031009	US 2002-63618	20020503
US	2003191289	A1	20031009	US 2002-63657	20020507
US	2003191284	A1	20031009	US 2002-63664	20020507
US	2003191290	A1	20031009	US 2002-63668	20020507
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US 2003068710	A1	20030410	US 2002-196761	20020716
US 2003104547	A1	20030605	US 2002-197701	20020717
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US 2003207398	A1	20031106	US 2002-198759	20020718
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US 2003199044	A1	20031023	US 2003-410552	20030408
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			US 1998-216021	B1	19981216
			US 1998-218517	B1	19981222
			US 1999-254311	A1	19990303
			US 1999-131293P	P	19990427
			US 1999-134287P	P	19990514
			US 1999-149395P	P	19990817
			US 1999-380139	A1	19990825
			US 1999-151689P	P	19990831
			US 1999-920594	A	19990908
			US 1999-921090	A	19990915
			CA 1999-2344465	A3	19991005
			EP 1999-960644	A3	19991202
			US 1999-169495P	P	19991207
			US 1999-99309	A	19991220
			US 2000-441400	A	20000222
			WO 2000-US6471	W	20000309
			US 2000-198121P	P	20000418
			US 2000-198585P	P	20000418
			US 2000-199397P	P	20000425
			US 2000-199550P	P	20000425
			US 2000-201516P	P	20000503
			US 2000-204675P	P	20000517
			WO 2000-US14042	W	20000522
			CA 2000-2380355	A3	20000824
			WO 2000-US23328	W	20000824
			US 2000-232887P	P	20000915
			US 2000-690189	A3	20001016
			US 2001-816920	B1	20010322
			WO 2001-US17443	W	20010530
			US 2001-880457	A	20010612
			US 2001-882636	B1	20010614
			US 2001-927796	B1	20010809
			WO 2001-US26626	W	20010823

US 2001-990711	A1	20011114
US 2001-2796	A	20011115
WO 2001-US48938	W	20011213
US 2002-52586	A1	20020115
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719
US 2002-211858	A1	20020802
US 2004-797366	A1	20040309

ED Entered STN: 29 Sep 2003

AB The present invention is directed to novel PRO polypeptides, and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antisense oligonucleotide probes and antibodies which bind to the polypeptides of the present invention, and to methods for producing the polypeptides of the present invention. The PRO polypeptides, polynucleotides and antibodies are useful for screening of agonists and antagonists, as well as for diagnosis and treatment of PRO protein-associated diseases, such as sports-related joint problems, articular cartilage defects, osteoarthritis, rheumatoid arthritis, diabetes, hyper- or hypoinsulinemia, lung cancer, rectal cancer, melanoma, stomach cancer, and esophageal cancer.

IC ICM C07K016-40

INCL 530388100; 530388150

CC 15-2 (Immunochemistry)
Section cross-reference(s): 1, 3, 9, 63

IT Antibodies and Immunoglobulins
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**fusion** products; human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers)

IT 604018-54-4P 604018-56-6P 604018-58-8P 604018-60-2P 604018-62-4P
604018-64-6P 604018-66-8P 604018-68-0P 604018-70-4P 604018-72-6P
604018-74-8P 604018-76-0P 604018-78-2P 604018-80-6P 604018-82-8P
604018-84-0P 604018-86-2P 604018-88-4P 604018-90-8P 604018-92-0P
604018-94-2P 604018-96-4P 604018-98-6P 604019-00-3P 604019-02-5P
604019-04-7P 604019-06-9P 604019-08-1P 604019-10-5P 604019-12-7P
604019-14-9P 604019-16-1P 604019-18-3P 604019-20-7P 604019-22-9P
604019-24-1P 604019-26-3P 604019-28-5P 604019-30-9P 604019-32-1P
604019-34-3P 604019-36-5P 604019-38-7P 604019-40-1P 604019-42-3P
604019-44-5P 604019-46-7P 604019-48-9P 604019-50-3P 604019-52-5P
604019-54-7P 604019-56-9P 604019-58-1P 604019-60-5P 604019-62-7P
604019-64-9P 604019-66-1P 604019-68-3P 604019-70-7P 604019-72-9P
604019-74-1P 604019-76-3P 604019-78-5P 604019-80-9P 604019-82-1P
604019-84-3P 604019-86-5P 604019-88-7P 604019-90-1P 604019-92-3P
604019-94-5P 604019-96-7P 604019-98-9P 604020-00-0P 604020-02-2P
604020-04-4P 604020-06-6P 604020-08-8P 604020-10-2P 604020-12-4P,

Protein PRO20110 (human clone DNA166819) **604020-14-6P**
604020-16-8P, Protein PRO20233 (human clone DNA165608)
604020-18-0P 604020-20-4P
RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers)

L16 ANSWER 8 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:590724 CAPLUS
DOCUMENT NUMBER: ~~139:14~~8487
TITLE: Human cytokine receptor based antagonists and methods of making and using
INVENTOR(S): Stahl, Neil; Yancopoulos, George D.
PATENT ASSIGNEE(S): Regeneron Pharmaceuticals, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 300 pp., Cont.-in-part of U.S. Ser. No. 787,835.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003143697	A1	20030731	US 2002-282162	20021028
US 6927044	B2	20050809		
WO 2000018932	A2	20000406	WO 1999-US22045	19990922 <--
WO 2000018932	A3	20001102		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2502385	AA	20040513	CA 2003-2502385	20031024
WO 2004039951	A2	20040513	WO 2003-US33718	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2003015652	A	20050830	BR 2003-15652	20031024
EP 1572967	A2	20050914	EP 2003-779216	20031024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005197293	A1	20050908	US 2005-56730	20050211
US 2005222033	A1	20051006	US 2005-134114	20050520
PRIORITY APPLN. INFO.:			WO 1999-US22045 W	19990922
			US 2001-787835 A2	20010322

US 1998-101858P	P	19980925
US 1999-313942	A	19990519
US 2002-282162	A	20021028
WO 2003-US33718	W	20031024

ED Entered STN: 01 Aug 2003

AB The present invention provides a fusion polypeptide capable of binding a cytokine to form a nonfunctional complex. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. Fusion proteins of the extracellular domains of cytokine receptors that can bind their cognate cytokines to form nonfunctional complexes are described. The proteins are fusions of the extracellular components of the ligand binding domains and signal transduction domains that are not capable of mediating ligand binding-induced signal transduction. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. The proteins can be used to antagonize cytokines in the treatment of immune disorders. Construction of a number of receptor fusion proteins and their ability to block cytokine function in several in vitro and in vivo tests is demonstrated.

IC ICM C12P021-04
ICS C07H021-04; C12P021-02; C12N005-06; C07K016-46

INCL 435069700; 435326000; 435320100; 530391100; 536023530

CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 3

IT **Chimeric** gene
Cytokines
Fusion proteins (**chimeric** proteins)
Interleukin 1 receptors
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(human cytokine receptor based antagonists and methods of making and using)

IT Molecular association
(interaction of **fusion** protein multimer with cytokine; human cytokine receptor based antagonists and methods of making and using)

IT Self-association
(of **fusion** protein; human cytokine receptor based antagonists and methods of making and using)

IT **569693-02-3P 569693-04-5P 569693-06-7P**
569693-08-9P 569693-10-3P 569693-12-5P
569693-14-7P 569693-16-9P 569693-18-1P 569693-20-5P 569693-22-7P
569693-24-9P
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human cytokine receptor based antagonists and methods of making and using)

IT 569705-99-3 569706-00-9 569706-01-0 569706-02-1 569706-03-2
569706-04-3 569706-05-4 569706-06-5 569706-07-6 569706-08-7
569706-10-1 569706-12-3 569706-14-5 569706-16-7 569706-18-9
569706-20-3 569706-22-5 569706-24-7
RL: PRP (Properties)
(unclaimed protein sequence; human cytokine receptor based antagonists and methods of making and using)

L16 ANSWER 9 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	2003:545686 CAPLUS
DOCUMENT NUMBER:	139:99845
TITLE:	Immunotherapy and diagnosis of tuberculosis
INVENTOR(S):	Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto, Antonio; Houghton, Raymond; Vedvick,

Thomas S.; Twardzik, Daniel R.; Lodes, Michael J.; Hendrickson, Ronald C.
PATENT ASSIGNEE(S): Corixa Corporation, USA
SOURCE: U.S., 220 pp., Cont.-in-part of U.S. Ser. No. 25,197, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6592877	B1	20030715	US 1998-72967	19980505
WO 9709428	A2	19970313	WO 1996-US14674	19960830 <--
WO 9709428	A3	19970717		
W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AZ				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
ZA 9607394	A	19970505	ZA 1996-7394	19960830 <--
EP 1203817	A2	20020508	EP 2001-126628	19960830
EP 1203817	A3	20030129		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI				
EP 1347055	A2	20030924	EP 2003-5931	19960830
EP 1347055	A3	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
EP 1398379	A2	20040317	EP 2003-21501	19960830
EP 1398379	A3	20040714		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI				
ES 2210392	T3	20040701	ES 1996-933009	19960830
US 6290969	B1	20010918	US 1997-818112	19970313
ZA 9708969	A	19980420	ZA 1997-8969	19971007 <--
CA 2337638	AA	19990826	CA 1999-2337638	19990217 <--
WO 9942076	A2	19990826	WO 1999-US3268	19990217 <--
WO 9942076	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9927663	A1	19990906	AU 1999-27663	19990217 <--
EP 1071451	A2	20010131	EP 1999-908169	19990217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002503683	T2	20020205	JP 2000-532093	19990217
ZA 9901303	A	20000315	ZA 1999-1303	19990218 <--
US 6465633	B1	20021015	US 1999-470191	19991223
AU 765833	B2	20031002	AU 2000-71762	20001122
US 2003143243	A1	20030731	US 2002-84843	20020225
US 6962710	B2	20051108		
US 2005136069	A1	20050623	US 2005-28898	20050103

PRIORITY APPLN. INFO.:

US 1995-523436	B2	19950901
US 1995-533634	B2	19950922
US 1996-620874	B2	19960322
US 1996-659683	B2	19960605
US 1996-680574	B2	19960712
WO 1996-US14674	B2	19960830
US 1996-730510	B2	19961011
US 1997-818112	A2	19970313
US 1997-942578	B2	19971001
US 1998-25197	B2	19980218
US 1995-523435	A	19950901
US 1995-523463	A	19950901
US 1995-532136	A	19950922
US 1996-658800	A	19960605
US 1996-680573	A	19960712
EP 1996-933009	A3	19960830
AU 1996-71586	A3	19960930
US 1997-818111	A	19970313
US 1997-942341	A	19971001
US 1997-729622	A	19971011
US 1998-24753	A	19980218
US 1998-72596	A	19980505
US 1998-72967	A	19980505
US 1998-113952P	P	19981224
WO 1999-US3268	W	19990217
US 2002-84843	A3	20020225

ED Entered STN: 17 Jul 2003

AB The authors disclose the characterization of Mycobacterium tuberculosis antigens inducing humoral and cellular immune responses. In one example, the antigens are derived from culture filtrates and stimulate interferon-γ production by responding T-cells. In a second example, genomic expression libraries are utilized to screen for reactive antibodies from humans and other animals.

IC ICM A61K039-04
ICS A61K039-00; A61K039-385; C12N001-12; C07H021-04

INCL 424248100; 424185100; 424192100; 424194100; 435253100; 530350000; 536023400; 536023700

CC 15-2 (Immunochemistry)

IT Human
(Mycobacterium **fusion** protein for vaccination against tuberculosis)

IT Antigens
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(Tb38-1, **fusion** products; in vaccination against tuberculosis)

IT Antigens
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(TbH-4, **fusion** products; in vaccination against tuberculosis)

IT Antigens
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(TbRa3, **fusion** products; in vaccination against tuberculosis)

IT DNA sequences
Protein sequences
(for **fusion** antigen of Mycobacterium tuberculosis)

IT **Fusion** proteins (**chimeric** proteins)
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(of Mycobacterium tuberculosis antigens for vaccination)
IT Proteins
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(phosphate-binding, 38,000-mol.-weight, **fusion** products; in vaccination against tuberculosis)
IT Vaccines
(tuberculosis; Mycobacterium **fusion** protein for)
IT 558504-24-8D, **fusion** protein-containing 558504-25-9D, **fusion** protein-containing 558504-26-0D, **fusion** protein-containing 558504-27-1D, **fusion** protein-containing
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; in vaccination against tuberculosis)
IT 558547-46-9 558547-47-0 558547-49-2 558547-50-5 558547-51-6
558547-52-7 558547-53-8 558547-54-9 558547-55-0 558547-56-1
558547-57-2 558547-58-3 558547-59-4 558547-60-7 558547-61-8
558547-62-9 558547-63-0 558547-64-1 558547-65-2 558547-66-3
558547-67-4 558547-68-5 558547-69-6 558547-70-9 558547-71-0
558547-72-1 558547-73-2 558547-74-3 558547-75-4 558547-76-5
558547-78-7 558547-80-1 558547-82-3 558547-85-6 558547-87-8
558547-89-0 558547-92-5 558547-93-6 558547-95-8 558547-98-1
558547-99-2 558548-00-8 558548-01-9 558548-02-0 558548-03-1
558548-04-2 558548-09-7 558548-10-0 558548-11-1 558548-12-2
558548-20-2 558548-26-8 558548-27-9 558548-49-5 558548-50-8
558548-51-9 558548-52-0 558548-53-1 558548-59-7 558548-60-0
558548-61-1 558548-62-2 558548-63-3 558548-67-7
558548-69-9 558548-85-9 558548-86-0 558548-87-1 558548-88-2
558548-89-3 558548-90-6 558548-91-7 558548-92-8 558548-93-9
558548-94-0 558548-95-1 558548-97-3 558549-00-1 558549-07-8
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558549-38-5 558549-39-6 558549-40-9 558549-41-0 558549-42-1
558549-43-2 558549-44-3 558549-47-6 558549-52-3 558549-53-4
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558549-98-7 558549-99-8 558550-05-3
RL: PRP (Properties)
(unclaimed protein sequence; immunotherapy and diagnosis of tuberculosis)
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 10 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:435223 CAPLUS
DOCUMENT NUMBER: 139:35094
TITLE: Cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses
INVENTOR(S): Stahl, Neil; Yancopoulos, George D.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 225 pp., Cont.-in-part of U.S. Ser. No. 935,868, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003104567	A1	20030605	US 2002-287035	20021101

PI US 2002012962 A1 20020131 US 1999-313942 19990519
US 6472179 B2 20021029
WO 2000018932 A2 20000406 WO 1999-US22045 19990922 <--
WO 2000018932 A3 20001102
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1229047 A2 20020807 EP 2002-7831 19990922
EP 1229047 A3 20021002
EP 1229047 B1 20041124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY
EP 1405915 A1 20040407 EP 2003-24727 19990922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY
HK 1045847 A1 20050324 HK 2002-107225 20010808
US 2002164690 A1 20021107 US 2001-935868 20010823
PRIORITY APPLN. INFO.: US 1998-101858P P 19980925
US 1999-313942 A2 19990519
WO 1999-US22045 W 19990922
US 2001-787835 A2 20010322
US 2001-935868 B2 20010823
EP 1999-952942 A3 19990922
HK 2001-105497 A 20010808

ED Entered STN: 06 Jun 2003

AB The present invention provides a fusion polypeptide that forms a multimer that is capable of binding a cytokine to form a nonfunctional complex. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. Fusion proteins of the extracellular domains of cytokine receptors that can bind their cognate cytokines to form nonfunctional complexes are described. The proteins are fusions of the extracellular components of the ligand binding domains and signal transduction domains that are not capable of mediating ligand binding-induced signal transduction. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. The proteins can be used to antagonize cytokines in the treatment of immune disorders. Construction of a number of receptor fusion proteins and their ability to block cytokine function in several in vitro and in vivo tests is demonstrated.

IC ICM C12P021-02
ICS C12N005-06; C07K014-715; C07K016-24; C07H021-04
INCL 435069100; 435320100; 435325000; 530388250; 530350000; 536023500
CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 3
ST cytokine antagonist receptor **fusion** protein; interleukin receptor **fusion** protein antagonist
IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(IL1RAP (interleukin 1 receptor accessory protein), **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(IgG1, **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(IgG4, **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Human
Molecular cloning
(cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin 1
Interleukin 13
Interleukin 4
Interleukin 6
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT **Chimeric** gene
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Cytokines
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT DNA sequences
(encoding cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Ciliary neurotrophic factor
Cytokine receptors
Interleukin 2 receptors
Interleukin 4 receptors
Interleukin 6 receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(heavy chain, **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(interleukin 13, **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Protein sequences

(of cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin 1 receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(type I, **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-73-7P, Interleukin 2 receptor (human clone Trap424 subunit γ) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their SEQ ID NO: therapeutic uses)

IT 540547-41-9P, Interleukin 13 receptor (human clone Trap933 subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-43-1P, Interleukin 4 receptor (human clone Trap943 subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-45-3P, Interleukin 13 receptor (human clone Trap1126 subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-47-5P, Interleukin 4 receptor (human clone Trap1128 subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-49-7P, Interleukin 13 receptor (human clone Trap1130 subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-51-1P, Interleukin 4 receptor (human clone Trap1132 subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-53-3P, Interleukin 4 receptor (human clone Trap1199 subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-55-5P, Interleukin 13 receptor (human clone Trap1244 subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-57-7P, Interleukin 4 receptor (human clone Trap1245 subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-59-9P, Interleukin 13 receptor (human clone Trap1246 subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-61-3P, Interleukin 13 receptor (human clone Trap1244-B subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-63-5P, Interleukin 4 receptor (human clone Trap1245-B subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-65-7P, Interleukin 13 receptor (human clone

Trap1246-B subunit α1) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-67-9P, Interleukin 4 receptor (human clone Trap1268 subunit α) **fusion** protein with interleukin 13 receptor (human subunit α1) **fusion** protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-69-1P, Interleukin 4 receptor (human clone Trap subunit α) **fusion** protein with interleukin 13 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-71-5P, Interleukin 13 receptor (human clone Trap subunit α) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-75-9P, Interleukin 2 receptor (human clone Trap603 subunit γ) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-77-1P, Interleukin 2 receptor (human clone Trap622 subunit γ) **fusion** protein with interleukin 4 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-79-3P, Interleukin 6 receptor (human clone Trap412 subunit α) **fusion** protein with interleukin 6 receptor-associated glycoprotein gp130 (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region) 540547-81-7P, Interleukin 6 receptor (human clone Trap616 subunit α) **fusion** protein with interleukin 6 receptor-associated glycoprotein gp130 (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region) **540547-83-9P**, Interleukin 1 receptor accessory protein IL1RAP (human clone Trap569) **fusion** protein with type I interleukin 1 receptor (human) **fusion** protein with immunoglobulin G1 (human heavy chain constant region) 540547-84-0P, Interleukin 6 receptor-associated glycoprotein gp130 (human) **fusion** protein with immunoglobulin G1 (human heavy chain constant region) 540547-85-1P, Interleukin 6 receptor (human subunit α) **fusion** protein with immunoglobulin G1 (human heavy chain constant region) 540547-86-2P, Interleukin 6 receptor-associated glycoprotein gp130 (human) **fusion** protein with immunoglobulin G1 (human γ1-chain constant region) 540547-87-3P, Interleukin 6 receptor-associated glycoprotein gp130 (human clone gp130Δ3fibro) **fusion** protein with immunoglobulin G1 (human fragment)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-40-8P, DNA (human clone Trap933 interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-42-0P, DNA (human clone Trap943 interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-44-2P, DNA (human clone Trap1126 interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-46-4P, DNA (human clone Trap1128 interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying)

540547-48-6P, DNA (human clone Trap1130 interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying 540547-50-0P, DNA (human clone Trap1132 interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-52-2P, DNA (human clone Trap1199 interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-54-4P, DNA (human clone Trap1244 interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-56-6P, DNA (human clone Trap1245 interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-58-8P, DNA (human clone Trap1246 interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-60-2P, DNA (human clone Trap1244-B interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-62-4P, DNA (human clone Trap1245-B interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-64-6P, DNA (human clone Trap1246-B interleukin 13 receptor subunit α1 **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-66-8P, DNA (human clone Trap1268 interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α1 **fusion** protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-68-0P, DNA (human clone Trap interleukin 4 receptor subunit α **fusion** product with interleukin 13 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-70-4P, DNA (human clone Trap interleukin 13 receptor subunit α **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-72-6P, DNA (human clone Trap424 interleukin 2 receptor subunit γ **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-74-8P, DNA (human clone Trap603 interleukin 2 receptor subunit γ **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-76-0P, DNA (human clone Trap622 interleukin 2 receptor subunit γ **fusion** product with interleukin 4 receptor subunit α **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-78-2P, DNA (human clone Trap412 interleukin 6 receptor subunit α **fusion** product with interleukin 6 receptor-associated glycoprotein gp130 **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-80-6P, DNA (human clone Trap616 interleukin 6 receptor subunit α **fusion** product with interleukin 6 receptor-associated glycoprotein gp130 **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-82-8P, DNA (human interleukin 6

receptor accessory protein IL1RAP **fusion** product with type I interleukin 1 receptor **fusion** protein with human immunoglobulin G1 heavy chain constant region-specifying)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-88-4
RL: PRP (Properties)
(unclaimed nucleotide sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-90-8 540547-91-9
RL: PRP (Properties)
(unclaimed protein sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 540466-29-3 540466-30-6 540466-31-7 540466-32-8 540547-89-5 540547-92-0 540547-93-1 540547-94-2
RL: PRP (Properties)
(unclaimed sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

L16 ANSWER 11 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:300527 CAPLUS
DOCUMENT NUMBER: 138:315797
TITLE: Methods for generating carboxymethylcellulase variants with improved properties by random mutagenesis and catalytic polypeptide library display
INVENTOR(S): Pan, Jae-Gu; Jung, Heung-Chae; Kim, Yong-Sung
PATENT ASSIGNEE(S): S. Korea
SOURCE: U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 395,881, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003073109	A1	20030417	US 2002-185990	20020628
KR 2000060418	A	20001016	KR 1999-8677	19990315 <--
PRIORITY APPLN. INFO.:			KR 1999-8677	A 19990315
			US 1999-395881	B2 19990914

ED Entered STN: 18 Apr 2003
AB The present invention relates to a high throughput screening method for preparing a variant of catalytic polypeptide capable of catalyzing a chemical reaction. The method of selecting a bacterium comprising a nucleic acid sequence encoding a polypeptide capable of catalyzing a chemical reaction from a library of candidate bacteria. The method comprises generating of a pool of nucleic acids by introducing at least one nucleotide change into the target nucleic acids encoding the polypeptide capable of catalyzing the desired chemical reaction and constructing library vectors to be transformed into a host cell after subcloning said pool of candidate nucleic acids into a surface display vector. The resulting vectors direct expression of fusion polypeptides of display motifs and candidate polypeptides and said fusion polypeptides are to be anchored to the surface of said bacteria. Each fusion polypeptides expressed on the surface of host bacteria is selected which expresses a desired polypeptide on the basis of said host bacterial phenotypic changes, or visual changes

of said products.
IC ICM C12Q001-68
ICS C12N015-74; C12N001-21
INCL 435006000; 435252300; 435471000
CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 7
IT **Chimeric** gene
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(encoding **fusion** proteins of display motifs; methods for generating carboxymethylcellulase variants with improved properties by random mutagenesis and catalytic polypeptide library display)
IT **511353-69-8** 511353-70-1
RL: PRP (Properties)
(unclaimed protein sequence; methods for generating carboxymethylcellulase variants with improved properties by random mutagenesis and catalytic polypeptide library display)

L16 ANSWER 12 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:77536 CAPLUS
DOCUMENT NUMBER: 138:132249
TITLE: Skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use
INVENTOR(S): Watson, James D.; Strachan, Lorna; Sleeman, Matthew; Onrust, Rene; Murison, James G.; Kumble, Krishanand D.
PATENT ASSIGNEE(S): Genesis Research and Development Corporation Limited, N. Z.
SOURCE: U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of U.S. Ser. No. 866,050.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003022835	A1	20030130	US 2002-152661	20020520
US 6150502	A	20001121	US 1998-188930	19981109 <--
WO 9955865	A1	19991104	WO 1999-NZ51	19990429 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6573095	B1	20030603	US 1999-312283	19990514
US 2003040471	A1	20030227	US 2001-866050	20010524

PRIORITY APPLN. INFO.:

US 1998-69726	B2	19980429
US 1998-188930	A2	19981109
WO 1999-NZ51	W	19990429
US 1999-312283	A2	19990514
US 2000-206650P	P	20000524
US 2000-221232P	P	20000725
US 2001-866050	A2	20010524

ED Entered STN: 31 Jan 2003
AB Isolated polynucleotides encoding polypeptides expressed in mammalian skin

cells are provided, together with expression vectors and host cells comprising such isolated polynucleotides. Thus, cDNA sequences are obtained by high-throughput screening of cDNA expression libraries constructed from dermal papilla cells from rat hair vibrissae, keratinocytes from human neonatal foreskin, human neonatal fibroblasts, mouse embryonic skin, and mouse stem cells (KSCL), transit amplifying (TRAM) cells, and human small airway epithelial cells. Murine and human TR1 polypeptides from such libraries are demonstrated to stimulate keratinocyte growth and mobility, inhibit the growth of epithelial-derived cancer cells, and play a role in angiogenesis and vascularization in tumors. Addnl., human and mouse KS1, which have similarity to CXC chemokines, are also isolated and demonstrated to promote cell growth, induce an oxidative burst in human peripheral blood mononuclear cells and migration in the human monocyte leukemia cell line. Thus, such polynucleotides and polypeptides may be developed as agents for the healing of wounds, angiogenesis, and regulators of epithelial-derived cancers.

IC ICM A61K038-17
ICS C12P021-02; C12N005-06; C07H021-04; C07K014-435

INCL 514012000; 530350000; 536023500; 435069100; 435320100; 435325000

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 13

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(of skin-associated proteins; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

IT

247255-24-9P	247255-36-3P	491885-34-8P	491885-35-9P	491885-36-0P
491885-37-1P	491885-38-2P	491885-39-3P	491885-40-6P	491885-41-7P
491885-42-8P	491885-43-9P	491885-44-0P	491885-45-1P	491885-46-2P
491885-47-3P	491885-48-4P	**491885-49-5P**	491885-50-8P	
491885-51-9P	491885-52-0P	491885-53-1P	491885-54-2P	491885-55-3P
491885-56-4P	491885-57-5P	491885-58-6P	491885-59-7P	491885-60-0P
491885-61-1P	491885-62-2P	491885-63-3P	491885-64-4P	491885-65-5P
491885-66-6P	491885-67-7P	491885-68-8P	491885-69-9P	491885-70-2P
491885-71-3P	491885-72-4P	491885-73-5P	491885-74-6P	491885-75-7P
491885-76-8P	491885-77-9P	491885-78-0P	491885-79-1P	491885-80-4P
491885-81-5P	491885-82-6P	491885-83-7P	491885-84-8P	491885-85-9P
491885-86-0P	491885-87-1P	491885-88-2P	491885-89-3P	491885-90-6P
491885-91-7P	491885-92-8P	491885-93-9P	491885-94-0P	491885-95-1P
491885-96-2P	491885-97-3P	491885-98-4P	491885-99-5P	491886-00-1P
491886-01-2P	491886-02-3P	491886-03-4P	491886-04-5P	491886-05-6P
491886-06-7P	491886-07-8P	491886-08-9P	491886-69-2P	491886-70-5P
491886-71-6P	491886-72-7P	491886-73-8P	491886-74-9P	491886-75-0P
491886-76-1P	491886-77-2P	491886-78-3P	491886-79-4P	491886-80-7P
491886-81-8P	491886-82-9P	491886-83-0P	491886-84-1P	491886-85-2P
491886-86-3P	491886-87-4P	**491886-88-5P**	491886-89-6P	
491886-90-9P	491886-91-0P	491886-92-1P	491886-93-2P	491886-94-3P
491886-95-4P	491886-96-5P	491886-97-6P	491886-98-7P	491886-99-8P
491887-00-4P	491887-01-5P	491887-02-6P	491887-03-7P	491887-04-8P
491887-05-9P	491887-06-0P	491887-07-1P	491887-08-2P	491887-09-3P
491887-10-6P	491887-11-7P	491887-12-8P	491887-13-9P	491887-14-0P
491887-15-1P	491887-16-2P	491887-17-3P	491887-18-4P	491887-43-5P
491887-44-6P	491887-45-7P	491887-46-8P	491887-47-9P	491887-48-0P
491887-49-1P	491887-50-4P	491887-51-5P	491887-52-6P	491887-53-7P
491887-54-8P	491887-55-9P	491887-56-0P	491887-57-1P	
491887-58-2P	491887-59-3P	491887-60-6P	491887-61-7P	491887-62-8P
491887-63-9P	491887-64-0P	491887-65-1P	491887-72-0P	491887-73-1P
491887-74-2P	491887-78-6P	491887-79-7P	491887-80-0P	491887-82-2P
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491888-52-9P 491888-53-0P 491888-54-1P 491888-55-2P 491888-56-3P
491888-57-4P 491888-58-5P 491888-59-6P 491888-60-9P 491888-61-0P
491888-62-1P 491888-63-2P 491888-64-3P 491888-65-4P 491888-66-5P
491888-67-6P 491888-68-7P 491888-69-8P 491888-72-3P 491888-73-4P
491889-83-9P 491889-84-0P 491889-85-1P 491889-86-2P 491889-87-3P
491889-88-4P 491889-89-5P 491889-90-8P 491889-91-9P 491889-92-0P
491889-93-1P 491889-94-2P 491889-95-3P **491889-96-4P**
491889-97-5P 491889-98-6P 491889-99-7P 491890-00-7P 491890-01-8P
491890-02-9P 491890-03-0P 491890-04-1P 491890-05-2P 491890-06-3P
491890-07-4P 491890-08-5P 491890-09-6P 491890-10-9P 491890-11-0P
491890-12-1P 491890-13-2P 491890-14-3P 491890-15-4P
491890-16-5P 491890-17-6P 491890-18-7P 491890-19-8P
491890-20-1P **491890-21-2P** 491890-22-3P 491890-23-4P
491890-24-5P 491890-25-6P 491890-26-7P 491890-27-8P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

IT 491890-28-9P 491890-29-0P **491890-30-3P** 491890-31-4P
491890-32-5P 491890-33-6P 491890-34-7P 491890-35-8P 491890-36-9P
491890-37-0P 491890-38-1P 491890-39-2P 491890-40-5P 491890-41-6P
491890-42-7P 491890-43-8P 491890-44-9P 491890-45-0P 491890-46-1P
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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

L16 ANSWER 13 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:77432 CAPLUS
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TITLE: Secreted and transmembrane proteins of human and cDNAs encoding them and their uses
INVENTOR(S): Baker, Kevin P.; Beresini, Maureen; Deforge, Laura; Desnoyers, Luc; Fivaroff, Ellen; Gao, Wei-qiang; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Sherwood, Steven; Smith, Victoria; Stewart, Timothy A.; Tumas, Daniel; Watanabe, Colin K.; Wood, William I.; Zhang, Zemin
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US 2003175856	A1	20030918	US 1998-114844	19980714	
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JP 2002238587	A2	20020827	JP 2001-385248	19980916	
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JP 2002253280	A2	20020910	JP 2001-385319	19980916	
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PT 1205550	T	20050729	PT 2001-127793	19980916	
ES 2239089	T3	20050916	ES 2001-127794	19980916	
ES 2240310	T3	20051016	ES 2001-127793	19980916	
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US 2002086368	A1	20020704	US 1998-168978	19981007	
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AU 9911260	A1	19990517	AU 1999-11260	19981029	<--
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NZ 528704	A	20050225	NZ 1999-528704	19990308	
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EP 1466977	A1	20041013	EP 2004-7618	19991202	
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US 2002192659	A1	20021219	US 2001-902853	20010710	
US 2003044839	A1	20030306	US 2001-902903	20010710	
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US 2003082541	A1	20030501	US 2001-902713	20010710	

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US 2003054441	A1	20030320	US 2001-905056	20010712
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US 2003036094	A1	20030220	US 2001-904820	20010713
US 2003054351	A1	20030320	US 2001-904462	20010713
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US	2003170788	A1	20030911	US 2002-145634	20020514
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US	1998-99812P	P	19980910
AU	1998-93881	A3	19980914
US	1998-100262P	P	19980914
EP	1998-946090	A3	19980916
JP	2000-511867	A3	19980916
US	1998-100858P	P	19980917
US	1998-101922P	P	19980924
AU	1998-93178	A3	19981002
US	1998-168978	B1	19981007
US	1998-104080P	P	19981013
US	1998-105169P	P	19981022
US	1998-106032P	P	19981028
US	1998-63561P	P	19981028
US	1998-182145	A3	19981029
US	1998-182562	A1	19981029
WO	1998-US22992	W	19981029
US	1998-187368	A1	19981106
JP	2000-522240	A3	19981120
US	1998-109304P	P	19981120
US	1998-202054	A1	19981207
US	1998-216021	B1	19981216
US	1998-113296P	P	19981222
US	1998-218517	B1	19981222
US	1999-254311	A1	19990303
US	1999-125778P	P	19990323
US	1999-131293P	P	19990427
US	1999-311832	A1	19990514
US	1999-139695P	P	19990615
US	1999-143048P	P	19990707
US	1999-145070P	P	19990720
US	1999-145698P	P	19990726
US	1999-146222P	A1	19990728
US	1999-149395P	P	19990817
US	1999-380137	B1	19990825
US	1999-380138	B1	19990825

US 1999-380139	B1	19990825
US 1999-380142	B1	19990825
US 1999-151689P	P	19990831
US 1999-920594	A	19990908
US 1999-921090	A	19990915
CA 1999-2344465	A3	19991005
US 1999-403297	B1	19991018
US 1999-423844	B1	19991112
EP 1999-960644	A3	19991202
US 1999-99309	A	19991220
US 2000-441400	A	20000222
WO 2000-US4414	A1	20000222
WO 2000-US6471	W	20000309
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
US 2000-644848	A1	20000822
CA 2000-2380355	A3	20000824
US 2000-644610	B1	20000824
US 2000-232887P	P	20000915
US 2000-664610	B1	20000918
US 2000-665350	A1	20000918
US 2000-690189	A3	20001016
US 2000-709238	B1	20001108
US 2001-816920	B1	20010322
WO 2001-US17443	W	20010530
US 2001-874503	A1	20010605
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-908827	A1	20010718
US 2001-918585	A1	20010730
US 2001-924419	B1	20010806
US 2001-927796	B1	20010809
US 2001-929404	B1	20010813
WO 2001-US26626	W	20010823
US 2001-941992	A1	20010828
US 2001-946374	A1	20010904
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
WO 2001-US48938	W	20011213
US 2002-52586	A1	20020115
WO 2002-US10513	W	20020403
US 2002-121049	A	20020412
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514

ED Entered STN: 31 Jan 2003

AB Proteins that have features typical of secreted or transmembrane proteins are identified and cDNAs encoding them are cloned and characterized. Many of the genes show altered levels of expression in tumors and may be of diagnostic or therapeutic use. Some of the proteins are shown to interact with one another and the presence or absence or modulation of the interaction may be of diagnostic or therapeutic use (no data). Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the

present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IC ICM G01N033-53
ICS C07H021-04; C12N009-00; A61K038-17; C12P021-02; C12N005-06; C07K014-435; C07K016-40

INCL 435007100; 435069100; 435183000; 435325000; 435320100; 530350000; 514012000; 530388100; 536023200

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 13

IT Epitopes
(**fusion** products with secreted or transmembrane products; secreted and transmembrane proteins of human and cDNAs encoding them)

IT Antibodies and Immunoglobulins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**fusion** products, with secreted or transmembrane products; secreted and transmembrane proteins of human and cDNAs encoding them)

IT **Fusion** proteins (**chimeric** proteins)
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(secreted and transmembrane proteins of human and cDNAs encoding them)

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(amino acid sequence; secreted and transmembrane proteins of human and cDNAs encoding them)

L16 ANSWER 14 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:23521 CAPLUS
DOCUMENT NUMBER: 138:88667
TITLE: Interleukin-17 and IL-17 receptor homologs for therapy
INVENTOR(S): Chen, Jian; Filvaroff, Ellen; Fong, Sherman; Goddard, Audrey; Godowski, Paul J.; Grimaldi, Christopher; Gurney, Austin L.; Li, Hanzhong; Hillan, Kenneth; Tumas, Daniel; Vanlookeren, Menno; Vandlen, Richard; Watanabe, Colin; Williams, P. Mickey; Wood, William I.; Yansura, Daniel G.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 148 pp., Cont.-in-part of U.S. Ser. No. 644,848.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003008815	A1	20030109	US 2000-747259	20001220
US 6569645	B2	20030527		
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
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CA 2481685	AA	20010308	CA 2000-2481685	20000824
CA 2481691	AA	20010308	CA 2000-2481691	20000824
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CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
EP 1286749	A1	20030305	EP 2001-939834	20010601
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

AU 2001073150	A5	20020130	AU 2001-73150	20010702
AU 2001071973	A5	20020205	AU 2001-71973	20010709
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
US 2003027249	A1	20030206	US 2001-931836	20010816
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US 2003073129	A1	20030417	US 2001-946374	20010904
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			US 1998-85339P	A1	19980513
			US 1998-87106P	P	19980528
			US 1998-88326P	P	19980604
			US 1998-88217P	P	19980605
			US 1998-88655P	P	19980609
			WO 1998-US12456	W	19980612
			US 1998-89947P	P	19980619
			US 1998-90676P	P	19980625
			US 1998-105413	A1	19980626
			US 1998-91982P	P	19980707

WO	1998-US14552	W	19980714
US	1998-94651P	A1	19980730
US	1998-97022P	P	19980818
US	1998-97974P	P	19980826
WO	1998-US17888	W	19980828
WO	1998-US18824	W	19980910
AU	1998-93881	A3	19980914
WO	1998-US19093	W	19980914
WO	1998-US19094	W	19980914
WO	1998-US19177	W	19980914
WO	1998-US19330	W	19980916
WO	1998-US19437	W	19980917
AU	1998-93178	A3	19981002
US	1998-168978	A1	19981007
WO	1998-US21141	W	19981007
US	1998-105169P	P	19981022
US	1998-63561P	P	19981028
WO	1998-US22991	W	19981029
WO	1998-US22992	W	19981029
US	1998-184216	B1	19981102
US	1998-187368	A1	19981106
WO	1998-US24855	W	19981120
WO	1998-US25108	W	19981201
US	1998-202054	A1	19981207
US	1998-216021	B1	19981216
US	1998-218517	B1	19981222
US	1999-254311	A1	19990303
US	1999-254465	A1	19990305
WO	1999-US5028	W	19990308
US	1999-265686	A1	19990310
US	1999-267213	B1	19990312
US	1999-284291	B1	19990412
US	1999-131293P	P	19990427
WO	1999-US10733	W	19990514
WO	1999-US12252	W	19990602
US	1999-149395P	P	19990817
US	1999-380137	A1	19990825
US	1999-380138	A1	19990825
US	1999-380139	B1	19990825
US	1999-380142	B1	19990825
US	1999-151689P	P	19990831
WO	1999-US20111	W	19990901
US	1999-920594	A	19990908
US	1999-397342	A1	19990915
US	1999-921090	A	19990915
CA	1999-2344465	A3	19991005
US	1999-403297	B1	19991018
US	1999-164495P	P	19991109
US	1999-423844	B1	19991112
US	1999-166360P	P	19991116
US	1999-166363P	P	19991116
US	1999-166364P	P	19991116
EP	1999-960644	A3	19991202
US	1999-99309	A	19991220
US	1999-172096P	P	19991223
WO	1999-US31274	W	19991230
US	2000-175481P	P	20000111
WO	2000-US4341	A1	20000218
US	2000-441400	A	20000222
WO	2000-US5601	W	20000301

WO	2000-US5841	W	20000302
US	2000-186968P	P	20000306
WO	2000-US6471	W	20000309
US	2000-189320P	P	20000314
US	2000-189328P	P	20000314
US	2000-190828P	P	20000321
US	2000-191007P	P	20000321
US	2000-191048P	P	20000321
US	2000-191314P	P	20000321
WO	2000-US7532	W	20000321
US	2000-192655P	P	20000328
US	2000-193032P	P	20000329
US	2000-193053P	P	20000329
US	2000-194449P	P	20000404
US	2000-194647P	P	20000404
US	2000-195975P	P	20000411
US	2000-196000P	P	20000411
US	2000-196187P	P	20000411
US	2000-196690P	P	20000411
US	2000-196820P	P	20000411
US	2000-198121P	P	20000418
US	2000-198585P	P	20000418
US	2000-199397P	P	20000425
US	2000-199550P	P	20000425
US	2000-199654P	P	20000425
US	2000-201516P	P	20000503
US	2000-204675P	P	20000517
WO	2000-US15264	W	20000602
US	2000-209832P	P	20000605
US	2000-212901P	P	20000620
US	2000-213807P	P	20000622
US	2000-219556P	P	20000720
US	2000-220585P	P	20000725
US	2000-220605P	P	20000725
US	2000-220607P	P	20000725
US	2000-220624P	P	20000725
US	2000-220638P	P	20000725
US	2000-220664P	P	20000725
US	2000-220666P	P	20000725
US	2000-220893P	P	20000726
WO	2000-US20710	W	20000728
US	2000-222425P	P	20000801
US	2000-227133P	P	20000822
US	2000-644848	A1	20000822
WO	2000-US23522	W	20000823
CA	2000-2380355	A3	20000824
US	2000-644610	B1	20000824
WO	2000-US23328	W	20000824
US	2000-232887P	P	20000915
US	2000-664610	A	20000918
US	2000-665350	A	20000918
US	2000-690189	A3	20001016
US	2000-242837P	P	20001024
US	2000-242922P	P	20001024
US	2000-244072P	P	20001026
US	2000-709238	A	20001108
WO	2000-US30952	W	20001108
WO	2000-US30873	W	20001110
US	2000-723749	A1	20001127
US	2000-253646P	P	20001128

WO 2000-US32678	W	20001201
US 2000-747259	A	20001220
WO 2000-US34956	W	20001220
US 2001-767609	A	20010122
US 2001-796498	A	20010228
WO 2001-US6520	W	20010228
WO 2001-US6666	A	20010301
US 2001-802706	A	20010309
US 2001-808689	A	20010314
US 2001-816744	A	20010322
US 2001-816920	A1	20010322
US 2001-828366	A	20010405
US 2001-854208	A	20010510
US 2001-854280	A	20010510
US 2001-860216	B1	20010518
US 2001-866028	A	20010525
US 2001-866034	A1	20010525
US 2001-866280	A1	20010525
WO 2001-US17092	W	20010525
US 2001-870574	A1	20010530
WO 2001-US17443	W	20010530
US 2001-872035	A1	20010601
WO 2001-US17800	W	20010601
US 2001-874503	A1	20010605
US 2001-880457	A	20010612
US 2001-882636	B1	20010614
US 2001-886342	A1	20010619
US 2001-887879	A1	20010621
US 2001-869599	B1	20010629
WO 2001-US21066	W	20010629
US 2001-908827	A2	20010718
US 2001-918585	A1	20010730
US 2001-924419	B1	20010806
US 2001-927796	B1	20010809
US 2001-929404	A2	20010813
US 2001-931836	A2	20010816
WO 2001-US26626	W	20010823
US 2001-941992	A1	20010828
US 2001-946374	A1	20010904
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-6867	A1	20011206
WO 2001-US48938	W	20011213
US 2001-28072	A1	20011219
US 2002-52586	A1	20020115
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719
US 2002-211858	A1	20020802
US 2004-797366	A1	20040309

ED Entered STN: 10 Jan 2003

AB The authors disclose the cloning, differential tissue expression, ligand specificity, and biol. activities for polypeptides and nucleic acids having sequence homol. with those for human interleukin-17 and IL-17 receptors.
IC ICM A61K038-17
ICS C07H021-04; C12N009-00; C07K014-435; C12P021-02; C12N005-06
INCL 514012000; 435183000; 530350000; 536023100; 435069100; 435325000; 435320100
CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 2, 3, 8
IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(of human interleukin-17 and IL-17 receptor homologs)
IT 483383-92-2P 483383-94-4P 483383-96-6P 483383-98-8P 483384-00-5P 483384-02-7P **483384-04-9P** 483384-06-1P 483384-08-3P
RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cloning, recombinant expression, and biol. activities for human interleukin-17 and IL-17 receptor homologs)

L16 ANSWER 15 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:23361 CAPLUS
DOCUMENT NUMBER: 138:88641
TITLE: Mycobacterium vaccae antigens for treating immunologically mediated skin disorders
INVENTOR(S): Watson, James D.; Tan, Paul L. J.; Prestidge, Ross
PATENT ASSIGNEE(S): N. Z.
SOURCE: U.S. Pat. Appl. Publ., 122 pp., Cont.-in-part of U.S. 6,328,978.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003007976	A1	20030109	US 2001-880505	20010613
US 5968524	A	19991019	US 1997-997080	19971223 <--
US 6328978	B1	20011211	US 1999-324542	19990602
IN 188709	A	20021026	IN 2000-CA231	20000419
PRIORITY APPLN. INFO.:			US 1997-997080	A2 19971223
			US 1999-324542	A2 19990602
			IN 1998-CA242	A 19980216

ED Entered STN: 10 Jan 2003
AB Methods for the treatment of skin disorders, including psoriasis, atopic dermatitis, allergic contact dermatitis, alopecia areata, skin cancers, and related disorders, such as psoriatic arthritis are provided, such methods comprising administering a composition having antigenic and/or adjuvant properties. Compns. which may be usefully employed in the inventive methods include inactivated M. vaccae cells, delipidated and deglycolipidated M. vaccae cells, M. vaccae culture filtrate and compds. present in or derived therefrom, together with combinations of such compns.
IC ICM A61K039-00
ICS A61K039-38

INCL 424184100
CC 15-2 (Immunochemistry)
Section cross-reference(s): 63
IT **Fusion** proteins (**chimeric** proteins)
Gene, microbial
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
IT 204442-79-5P 482676-55-1P 482676-56-2P 482676-57-3P 482676-58-4P 482676-59-5P 482676-61-9P 482676-63-1P, Antigen pota (Mycobacterium vaccae) 482676-65-3P, Antigen potd (Mycobacterium vaccae) 482676-67-5P **482676-72-2P**, Antigen GV-27A (Mycobacterium vaccae) 482676-74-4P 482676-77-7P 482676-78-8P 482676-80-2P 482676-84-6P 482676-86-8P, Antigen GV-35 (Mycobacterium vaccae) 482676-88-0P 482676-91-5P 482676-92-6P 482676-95-9P 482676-99-3P 482677-00-9P 482677-04-3P, Antigen GV-40 (Mycobacterium vaccae) 482677-07-6P, Antigen GVs-9 (Mycobacterium vaccae) 482678-83-1P, Antigen 85A (Mycobacterium vaccae) 482678-84-2P 482678-85-3P, Antigen 85C (Mycobacterium vaccae) 482678-87-5P, Antigen GVc-7 (Mycobacterium vaccae) 482678-89-7P 482678-92-2P, Antigen GVc-14 (Mycobacterium vaccae) 482678-93-3P **482678-94-4P**, Antigen GV-27 (Mycobacterium vaccae) 482678-96-6P, Antigen GV-44 (Mycobacterium vaccae) 482678-97-7P 482678-98-8P, Antigen GV-38A (Mycobacterium vaccae) 482679-01-6P 482679-05-0P 482679-06-1P 482679-07-2P, Antigen GV-22B (Mycobacterium vaccae) 482679-08-3P, Antigen GV-1/83 (Mycobacterium vaccae) 482679-10-7P **482679-11-8P**, Antigen GV-27 (Mycobacterium vaccae) 482679-12-9P 482679-15-2P, Antigen GV-24B (Mycobacterium vaccae) 482679-16-3P, Antigen GV-38B (Mycobacterium vaccae) 482679-17-4P, Antigen GV-41 (Mycobacterium vaccae) 482679-18-5P, Antigen GV-42 (Mycobacterium vaccae) 482679-19-6P, Antigen GV-45 (Mycobacterium vaccae) 482679-21-0P, Antigen GV-33 (Mycobacterium vaccae)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
IT 482711-77-3 482711-78-4 482711-79-5 482711-80-8 482711-81-9 482711-82-0 482711-83-1 482711-84-2 482711-85-3 482711-86-4 482711-87-5 482711-90-0 482711-91-1 482711-92-2 482711-93-3 482711-97-7 482712-06-1 **482712-08-3** 482712-15-2
RL: PRP (Properties)
(unclaimed protein sequence; mycobacterium vaccae antigens for treating immunol. mediated skin disorders)

L16 ANSWER 16 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:5348 CAPLUS
DOCUMENT NUMBER: 138:71922
TITLE: Human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses
INVENTOR(S): Chen, Jian; Filvaroff, Ellen; Fong, Sherman; Goddard, Audrey; Godowski, Paul; Grimaldi, Christopher; Gurney, Austin; Li, Hanzhong; Hillan, Kenneth; Tumas, Daniel; Vanlookeren, Menno; Vandlen, Richard; Watanabe, Colin; Williams, P. Mickey; Wood, William I.; Yansura, Daniel
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 129 pp., Cont.-in-part of U. S. Ser. No. 311,832.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 2003003546	A1	20030102	US 2001-816744	20010322	
US 6579520	B2	20030617			
NZ 528704	A	20050225	NZ 1999-528704	19990308	
CA 2450824	AA	20000420	CA 1999-2450824	19991005	<--
EP 1466977	A1	20041013	EP 2004-7618	19991202	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY					
NZ 523206	A	20041224	NZ 2000-523206	20000211	
NZ 523207	A	20041224	NZ 2000-523207	20000211	
NZ 517395	A	20040130	NZ 2000-517395	20000309	
CA 2481685	AA	20010308	CA 2000-2481685	20000824	
CA 2481691	AA	20010308	CA 2000-2481691	20000824	
CA 2481731	AA	20010308	CA 2000-2481731	20000824	
CA 2481756	AA	20010308	CA 2000-2481756	20000824	
CA 2481788	AA	20010308	CA 2000-2481788	20000824	
US 2002058309	A1	20020516	US 2001-866028	20010525	
US 6642360	B2	20031104			
CA 2419541	AA	20020228	CA 2001-2419541	20010530	
JP 2004520811	T2	20040715	JP 2002-522282	20010530	
EP 1286749	A1	20030305	EP 2001-939834	20010601	
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AU 2001073150	A5	20020130	AU 2001-73150	20010702	
AU 2001071973	A5	20020205	AU 2001-71973	20010709	
AU 758921	B2	20030403	AU 2001-57764	20010801	
AU 759004	B2	20030403	AU 2001-57765	20010801	
US 2003027249	A1	20030206	US 2001-931836	20010816	
CA 2420193	AA	20020228	CA 2001-2420193	20010823	
JP 2004520810	T2	20040715	JP 2002-522275	20010823	
US 2003073129	A1	20030417	US 2001-946374	20010904	
US 2002156006	A1	20021024	US 2001-978295	20011015	
US 2002177553	A1	20021128	US 2001-978192	20011015	
US 2003004102	A1	20030102	US 2001-978189	20011015	
US 6972325	B2	20051206			
US 2002169284	A1	20021114	US 2001-978697	20011016	
US 2003207803	A1	20031106	US 2001-143026	20011019	
US 2003170254	A1	20030911	US 2001-17191	20011024	
US 2003199021	A1	20031023	US 2001-13924	20011025	
US 2002182673	A1	20021205	US 2001-157	20011030	
EP 1397383	A2	20040317	EP 2001-990229	20011213	
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AU 772759	B2	20040506	AU 2002-14767	20020201	
AU 772723	B2	20040506	AU 2002-14769	20020201	
AU 772734	B2	20040506	AU 2002-14771	20020201	
AU 778585	B2	20041209	AU 2002-14753	20020201	
CA 2449602	AA	20021219	CA 2002-2449602	20020403	
WO 2002101069	A2	20021219	WO 2002-US10513	20020403	
WO 2002101069	A3	20030904			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,					

UA, UG, UZ, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1402260	A2	20040331	EP 2002-731246	20020403	
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JP 2005500030	T2	20050106	JP 2003-503819	20020403	
US 2003022328	A1	20030130	US 2002-123904	20020416	
US 2003009012	A1	20030109	US 2002-63517	20020501	
US 2003009013	A1	20030109	US 2002-63519	20020501	
US 2002183493	A1	20021205	US 2002-63530	20020502	
US 2002183505	A1	20021205	US 2002-63545	20020502	
US 2002182638	A1	20021205	US 2002-63547	20020502	
US 2002183494	A1	20021205	US 2002-63551	20020502	
US 2003018168	A1	20030123	US 2002-63569	20020502	
US 2003027992	A1	20030206	US 2002-63524	20020502	
US 2003027993	A1	20030206	US 2002-63537	20020502	
US 2003027212	A1	20030206	US 2002-63544	20020502	
US 2003027986	A1	20030206	US 2002-63549	20020502	
US 2003036634	A1	20030220	US 2002-63525	20020502	
US 2003040013	A1	20030227	US 2002-63554	20020502	
US 2003013855	A1	20030116	US 2002-63616	20020503	
US 2003032155	A1	20030213	US 2002-137865	20020503	
US 2003022331	A1	20030130	US 2002-140470	20020506	
US 2003032156	A1	20030213	US 2002-140474	20020506	
US 2003017563	A1	20030123	US 2002-140808	20020507	
US 2003036180	A1	20030220	US 2002-143114	20020509	
US 2003036179	A1	20030220	US 2002-142431	20020510	
US 2003148438	A1	20030807	US 2002-145821	20020514	
US 2003170788	A1	20030911	US 2002-145634	20020514	
US 2003166084	A1	20030904	US 2002-146793	20020515	
US 2003134380	A1	20030717	US 2002-147509	20020516	
US 2004214269	A1	20041028	US 2002-147518	20020516	
US 2003180875	A1	20030925	US 2002-147505	20020517	
US 2003199027	A1	20031023	US 2002-152396	20020520	
US 2005074837	A1	20050407	US 2002-158788	20020530	
US 2003022293	A1	20030130	US 2002-173706	20020617	
US 2003027262	A1	20030206	US 2002-173700	20020617	
US 2003032101	A1	20030213	US 2002-173695	20020617	
US 2003032102	A1	20030213	US 2002-173697	20020617	
US 2003032103	A1	20030213	US 2002-173705	20020617	
US 2003040053	A1	20030227	US 2002-173708	20020617	
US 2003073169	A1	20030417	US 2002-173693	20020617	
US 2003082767	A1	20030501	US 2002-173696	20020617	
US 2003017540	A1	20030123	US 2002-174581	20020618	
US 2003027263	A1	20030206	US 2002-174572	20020618	
US 2003027264	A1	20030206	US 2002-174579	20020618	
US 2003027265	A1	20030206	US 2002-174582	20020618	
US 2003027266	A1	20030206	US 2002-174588	20020618	
US 2003027268	A1	20030206	US 2002-175740	20020618	
US 2003032104	A1	20030213	US 2002-174576	20020618	
US 2003032105	A1	20030213	US 2002-174585	20020618	
US 2003032106	A1	20030213	US 2002-174586	20020618	
US 2003073170	A1	20030417	US 2002-174578	20020618	
US 2003013153	A1	20030116	US 2002-175737	20020619	
US 2003022294	A1	20030130	US 2002-175738	20020619	
US 2003022295	A1	20030130	US 2002-175752	20020619	
US 2003027267	A1	20030206	US 2002-175739	20020619	

US 2003027269	A1	20030206	US 2002-175743	20020619
US 2003027270	A1	20030206	US 2002-175746	20020619
US 2003032107	A1	20030213	US 2002-175747	20020619
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WO	1999-US10733	W	19990514

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US	2001-870574	A1 20010530
WO	2001-US17443	W 20010530
US	2001-872035	A1 20010601
WO	2001-US17800	W 20010601
US	2001-874503	A1 20010605
US	2001-880457	A 20010612
US	2001-882636	B1 20010614
US	2001-886342	A1 20010619
US	2001-887879	A1 20010621
US	2001-869599	B1 20010629
WO	2001-US21066	W 20010629
US	2001-908827	A2 20010718
US	2001-918585	A1 20010730
US	2001-924419	B1 20010806
US	2001-927796	B1 20010809

US 2001-929404	A2	20010813
US 2001-931836	A2	20010816
WO 2001-US26626	W	20010823
US 2001-941992	A1	20010828
US 2001-946374	A1	20010904
US 2001-990711	A1	20011114
US 2001-2796	A	20011115
US 2001-6867	A1	20011206
WO 2001-US48938	W	20011213
US 2001-28072	A1	20011219
US 2002-52586	A1	20020115
WO 2002-US10513	W	20020403
US 2002-123155	A1	20020415
US 2002-127825	A1	20020422
US 2002-127966	B1	20020423
US 2002-141703	A1	20020508
US 2002-145627	A1	20020514
US 2002-145751	A	20020514
US 2002-146793	A1	20020515
US 2002-197703	B1	20020717
US 2002-197708	A1	20020717
US 2002-199666	A1	20020718
US 2002-199464	B1	20020719
US 2002-211858	A1	20020802
US 2004-797366	A1	20040309

ED Entered STN: 03 Jan 2003

AB The present invention is directed to 9 novel human polypeptides having sequence similarity with interleukin 17 (IL-17), IL-17 receptors, and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. Further provided herein are methods for treating degenerative cartilaginous disorders and other inflammatory diseases.

IC ICM C12Q001-68
ICS C12P021-02; C07H021-04; C12N005-06; A61K038-20

INCL 435069500; 435325000; 435320100; 435006000; 530351000; 424085200; 536023500

CC 15-5 (Immunochemistry)
Section cross-reference(s): 3, 63

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fragments, Fc, **fusion** products; human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

IT Epitopes
(**fusion** products; human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

IT 479746-80-0P 479746-82-2P 479746-84-4P 479746-86-6P 479746-88-8P 479746-90-2P **479746-92-4P** 479746-94-6P 479746-96-8P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL

(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

L16 ANSWER 17 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:928139 CAPLUS
DOCUMENT NUMBER: 138:23676
TITLE: Interleukin-17 and IL-17 receptor homologs for therapy
INVENTOR(S): Chen, Jian; Filvaroff, Ellen; Fong, Sherman; French, Dorothy; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Hillan, Kenneth J.; Hymowitz, Sarah G.; Li, Hanzhong; Pan, James; Starovasnik, Melissa A.; Tumas, Daniel; Van Lookeren, Menno; Vandlen, Richard; Watanabe, Colin K.; Williams, P. Mickey; Wood, William I.; Yansura, Daniel G.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 161 pp., Cont.-in-part of U. S. Ser. No. 931,836.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002182673	A1	20021205	US 2001-157	20011030
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
CA 2380355	AA	20010308	CA 2000-2380355	20000824
CA 2481685	AA	20010308	CA 2000-2481685	20000824
CA 2481691	AA	20010308	CA 2000-2481691	20000824
CA 2481731	AA	20010308	CA 2000-2481731	20000824
CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2003008815	A1	20030109	US 2000-747259	20001220
US 6569645	B2	20030527		
US 2003003546	A1	20030102	US 2001-816744	20010322
US 6579520	B2	20030617		
US 2002052027	A1	20020502	US 2001-854280	20010510
US 2002106743	A1	20020808	US 2001-854208	20010510
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
US 2003054442	A1	20030320	US 2001-908827	20010718
US 2003060406	A1	20030327	US 2001-918585	20010730
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
US 2003027249	A1	20030206	US 2001-931836	20010816
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003207803	A1	20031106	US 2001-143026	20011019

US 2003170254 A1 20030911 US 2001-17191 20011024
US 2003199021 A1 20031023 US 2001-13924 20011025
US 2002192209 A1 20021219 US 2001-1054 20011130
EP 1397383 A2 20040317 EP 2001-990229 20011213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
AU 772759 B2 20040506 AU 2002-14767 20020201
AU 772723 B2 20040506 AU 2002-14769 20020201
AU 772734 B2 20040506 AU 2002-14771 20020201
AU 778585 B2 20041209 AU 2002-14753 20020201
CA 2449602 AA 20021219 CA 2002-2449602 20020403
WO 2002101069 A2 20021219 WO 2002-US10513 20020403
WO 2002101069 A3 20030904
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW
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EP 1402260 A2 20040331 EP 2002-731246 20020403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2005500030 T2 20050106 JP 2003-503819 20020403
US 2003148438 A1 20030807 US 2002-145821 20020514
US 2003170788 A1 20030911 US 2002-145634 20020514
US 2003166084 A1 20030904 US 2002-146793 20020515
US 2003134380 A1 20030717 US 2002-147509 20020516
US 2004214269 A1 20041028 US 2002-147518 20020516
US 2003180875 A1 20030925 US 2002-147505 20020517
US 2003199027 A1 20031023 US 2002-152396 20020520
US 2005074837 A1 20050407 US 2002-158788 20020530
US 2003073169 A1 20030417 US 2002-173693 20020617
US 2003082767 A1 20030501 US 2002-173696 20020617
US 2003104538 A1 20030605 US 2002-173701 20020617
US 2003166104 A1 20030904 US 2002-173689 20020617
US 2003166105 A1 20030904 US 2002-173690 20020617
US 2003166106 A1 20030904 US 2002-173691 20020617
US 2003166188 A1 20030904 US 2002-173692 20020617
US 2003166107 A1 20030904 US 2002-173694 20020617
US 2003166108 A1 20030904 US 2002-173698 20020617
US 2003166109 A1 20030904 US 2002-173699 20020617
US 2003166110 A1 20030904 US 2002-173707 20020617
US 2003170793 A1 20030911 US 2002-173702 20020617
US 2003170794 A1 20030911 US 2002-173703 20020617
US 2003170795 A1 20030911 US 2002-173704 20020617
US 2003068679 A1 20030410 US 2002-174571 20020618
US 2003073170 A1 20030417 US 2002-174578 20020618
US 2003166111 A1 20030904 US 2002-174569 20020618
US 2003166112 A1 20030904 US 2002-174583 20020618
US 2003166113 A1 20030904 US 2002-174587 20020618
US 2003166114 A1 20030904 US 2002-174589 20020618
US 2003166115 A1 20030904 US 2002-174591 20020618
US 2003170796 A1 20030911 US 2002-174574 20020618
US 2003211572 A1 20031113 US 2002-174570 20020618
US 2003073171 A1 20030417 US 2002-175741 20020619
US 2003073172 A1 20030417 US 2002-175750 20020619

US 2003077732	A1	20030424	US 2002-175753	20020619
US 2003082715	A1	20030501	US 2002-175735	20020619
US 2003166117	A1	20030904	US 2002-175736	20020619
US 2003166118	A1	20030904	US 2002-175742	20020619
US 2003166119	A1	20030904	US 2002-175744	20020619
US 2003166120	A1	20030904	US 2002-175745	20020619
US 2003166121	A1	20030904	US 2002-175748	20020619
US 2003166122	A1	20030904	US 2002-175751	20020619
US 2003166123	A1	20030904	US 2002-175754	20020619
US 2005196832	A1	20050908	US 2002-175749	20020619
US 2003044916	A1	20030306	US 2002-176484	20020620
US 2003059876	A9	20030327		
US 2003044917	A1	20030306	US 2002-176753	20020620
US 2003044918	A1	20030306	US 2002-176917	20020620
US 2003068680	A1	20030410	US 2002-176746	20020620
US 2003087373	A1	20030508	US 2002-176491	20020620
US 2003166126	A1	20030904	US 2002-176754	20020620
US 2003166128	A1	20030904	US 2002-176759	20020620
US 2003166129	A1	20030904	US 2002-176920	20020620
US 2003170798	A1	20030911	US 2002-176490	20020620
US 2003170800	A1	20030911	US 2002-176981	20020620
US 2003170802	A1	20030911	US 2002-176988	20020620
US 2003170803	A1	20030911	US 2002-176989	20020620
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US 2003073173	A1	20030417	US 2002-176986	20020621
US 2003087374	A1	20030508	US 2002-176979	20020621
US 2003166124	A1	20030904	US 2002-176480	20020621
US 2003166125	A1	20030904	US 2002-176489	20020621
US 2003166127	A1	20030904	US 2002-176755	20020621
US 2003166130	A1	20030904	US 2002-176922	20020621
US 2003166131	A1	20030904	US 2002-176924	20020621
US 2003170797	A1	20030911	US 2002-176486	20020621
US 2003170799	A1	20030911	US 2002-176752	20020621
US 2003170801	A1	20030911	US 2002-176983	20020621
US 2003044920	A1	20030306	US 2002-179506	20020624
US 2003044921	A1	20030306	US 2002-179513	20020624
US 2003044922	A1	20030306	US 2002-179514	20020624
US 2003044923	A1	20030306	US 2002-179522	20020624
US 2003096353	A1	20030522	US 2002-179520	20020624
US 2003104539	A1	20030605	US 2002-179511	20020624
US 2003104540	A1	20030605	US 2002-179518	20020624
US 2003166133	A1	20030904	US 2002-179508	20020624
US 2003166134	A1	20030904	US 2002-179512	20020624
US 2003166135	A1	20030904	US 2002-179515	20020624
US 2003170805	A1	20030911	US 2002-179517	20020624
US 2003170806	A1	20030911	US 2002-179521	20020624
US 2003207392	A1	20031106	US 2002-179509	20020624
US 2003215909	A1	20031120	US 2002-179523	20020624
US 2003044924	A1	20030306	US 2002-180556	20020625
US 2003044925	A1	20030306	US 2002-180560	20020625
US 2003064440	A1	20030403	US 2002-180550	20020625
US 2003077733	A1	20030424	US 2002-180553	20020625
US 2005202526	A1	20050915	US 2002-180554	20020625
US 2003044926	A1	20030306	US 2002-183015	20020626
US 2003054454	A1	20030320	US 2002-183002	20020626
US 2003064441	A1	20030403	US 2002-183014	20020626
US 2003082716	A1	20030501	US 2002-183003	20020626
US 2003082717	A1	20030501	US 2002-183016	20020626
US 2003104541	A1	20030605	US 2002-183018	20020626

US 2003124661	A1	20030703	US 2002-183009	20020626
US 2003211574	A1	20031113	US 2002-183005	20020626
US 2005163766	A1	20050728	US 2002-183001	20020626
US 2003044927	A1	20030306	US 2002-184615	20020627
US 2003054456	A1	20030320	US 2002-184638	20020627
US 2003068683	A1	20030410	US 2002-184633	20020627
US 2003073174	A1	20030417	US 2002-184641	20020627
US 2003119105	A1	20030626	US 2002-184613	20020627
US 2003157635	A1	20030821	US 2002-184642	20020627
US 2003044928	A1	20030306	US 2002-184620	20020628
US 2003044929	A1	20030306	US 2002-184643	20020628
US 2003044930	A1	20030306	US 2002-184644	20020628
US 2003044931	A1	20030306	US 2002-184656	20020628
US 2003104542	A1	20030605	US 2002-184624	20020628
US 2003104543	A1	20030605	US 2002-184657	20020628
US 2003054458	A1	20030320	US 2002-187887	20020701
US 2003044932	A1	20030306	US 2002-192010	20020709
US 2003068695	A1	20030410	US 2002-192012	20020709
US 2003068696	A1	20030410	US 2002-192014	20020709
US 2003049743	A1	20030313	US 2002-194394	20020711
US 2003049745	A1	20030313	US 2002-194485	20020711
US 2003064446	A1	20030403	US 2002-194460	20020711
US 2003153037	A1	20030814	US 2002-194457	20020711
US 2003059879	A1	20030327	US 2002-194456	20020712
US 2003064448	A1	20030403	US 2002-194484	20020712
US 2003049747	A1	20030313	US 2002-195899	20020715
US 2003064449	A1	20030403	US 2002-195884	20020715
US 2003063112	A1	20030403	US 2002-195896	20020715
US 2003068705	A1	20030410	US 2002-195886	20020715
US 2003068706	A1	20030410	US 2002-195891	20020715
US 2003071834	A1	20030417	US 2002-195898	20020715
US 2003049749	A1	20030313	US 2002-196750	20020716
US 2003065159	A1	20030403	US 2002-196757	20020716
US 2003068710	A1	20030410	US 2002-196761	20020716
US 2003104547	A1	20030605	US 2002-197701	20020717
US 2003104548	A1	20030605	US 2002-197706	20020717
US 2003068718	A1	20030410	US 2002-198761	20020718
US 2003068720	A1	20030410	US 2002-198763	20020718
US 2003068722	A1	20030410	US 2002-199301	20020718
US 2003068729	A1	20030410	US 2002-199460	20020718
US 2003068732	A1	20030410	US 2002-199673	20020718
US 2003207398	A1	20031106	US 2002-198759	20020718
US 2003215910	A1	20031120	US 2002-199463	20020718
US 2003068719	A1	20030410	US 2002-198762	20020719
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US 2003180881	A1	20030925	US 2002-202475	20020723
US 2003064462	A1	20030403	US 2002-206919	20020726
US 2003064463	A1	20030403	US 2002-206922	20020726
US 2003068756	A1	20030410	US 2002-206912	20020726
US 2003068759	A1	20030410	US 2002-206920	20020726
US 2003068760	A1	20030410	US 2002-206921	20020726
US 2003073183	A1	20030417	US 2002-206917	20020726
US 2003096359	A1	20030522	US 2002-205910	20020726
US 2004048334	A1	20040311	US 2002-205890	20020726
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US 2003073185	A1	20030417	US 2002-207924		20020729
US 2003215912	A1	20031120	US 2002-207915		20020729
US 2004048335	A1	20040311	US 2002-208024		20020729
US 2003069407	A1	20030410	US 2002-232232		20020829
US 2003120056	A1	20030626	US 2002-289498		20021105
US 2003144498	A1	20030731	US 2002-289527		20021105
US 2004249141	A1	20041209	US 2002-289490		20021105
US 2003224984	A1	20031204	US 2002-305654		20021126
US 2004043397	A1	20040304	US 2003-408385		20030407
US 2003199044	A1	20031023	US 2003-410552		20030408
US 2004258710	A1	20041223	US 2004-791618		20040302
US 2005019823	A1	20050127	US 2004-931886		20040831
US 2005153396	A1	20050714	US 2004-955952		20040929
US 2005153348	A1	20050714	US 2004-20604		20041221
US 2005176041	A1	20050811	US 2004-26279		20041230
US 2005214819	A1	20050929	US 2005-30464		20050105
US 2005164266	A1	20050728	US 2005-36582		20050113
US 2005170396	A1	20050804	US 2005-36869		20050114
US 2005202475	A1	20050915	US 2005-38328		20050118
US 2005176046	A1	20050811	US 2005-46650		20050128
US 2005170458	A1	20050804	US 2005-50154		20050202
US 2005176104	A1	20050811	US 2005-52503		20050204
US 2005136515	A1	20050623	US 2005-56802		20050211
US 2005136475	A1	20050623	US 2005-60652		20050216
JP 2005224245	A2	20050825	JP 2005-54646		20050228
US 2005158830	A1	20050721	US 2005-80062		20050314
JP 2005245460	A2	20050915	JP 2005-118817		20050415
JP 2005253468	A2	20050922	JP 2005-118579		20050415
JP 2005253469	A2	20050922	JP 2005-118701		20050415
JP 2005261437	A2	20050929	JP 2005-119030		20050415
JP 2005270107	A2	20051006	JP 2005-118968		20050415
US 2005214846	A1	20050929	US 2005-117757		20050427
PRIORITY APPLN. INFO.:			US 1999-311832	A2	19990514
			US 1999-380138	A2	19990825
			US 1999-380142	B2	19990825
			US 1999-172096P	P	19991223
			US 2000-175481P	P	20000111
			US 2000-191007P	P	20000321
			US 2000-213807P	P	20000622
			US 2000-644848	A2	20000822
			US 2000-242837P	P	20001024
			US 2000-244072P	P	20001026
			US 2000-253646P	P	20001128
			US 2000-747259	A2	20001220
			US 2001-816744	A2	20010322
			US 2001-854208	A2	20010510
			US 2001-854280	A2	20010510
			US 2001-874503	A2	20010605
			US 2001-908827	A2	20010718
			US 2001-918585	A2	20010730
			US 2001-929404	A2	20010813
			US 2001-931836	A2	20010816
			US 1997-59263P	P	19970918
			US 1997-59266P	P	19970918
			US 1997-62250P	P	19971017
			US 1997-63486P	P	19971021
			US 1997-63120P	P	19971024
			US 1997-63121P	P	19971024
			US 1997-63540P	P	19971028
			US 1997-63541P	P	19971028

US	1997-63544P	P	19971028
US	1997-63564P	P	19971028
US	1997-63734P	P	19971029
US	1997-63870P	P	19971031
US	1997-64103P	P	19971031
US	1997-65311P	P	19971113
US	1997-66120P	P	19971121
US	1997-66466P	P	19971124
US	1997-66772P	P	19971124
US	1997-69335P	P	19971211
US	1997-69425P	P	19971212
US	1997-68017P	P	19971218
US	1998-77632P	P	19980311
US	1998-40220	A1	19980317
US	1998-80107P	P	19980331
US	1998-80327P	P	19980401
US	1998-82568P	P	19980421
US	1998-82704P	P	19980422
US	1998-83742P	P	19980430
US	1998-84366P	P	19980505
US	1998-84639P	P	19980507
US	1998-85339P	A1	19980513
US	1998-85579P	P	19980515
US	1998-85580P	P	19980515
US	1998-86486P	P	19980522
US	1998-87106P	P	19980528
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US	1998-88655P	P	19980609
US	1998-89947P	P	19980619
US	1998-90676P	P	19980625
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AU	1998-93881	A3	19980914
AU	1998-93178	A3	19981002
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US	1998-216021	B1	19981216
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US	1998-113621P	P	19981223
US	1999-254311	A1	19990303
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US	1999-131293P	P	19990427
US	1999-149395P	P	19990817
US	1999-380137	A1	19990825
US	1999-380139	B1	19990825
US	1999-151689P	P	19990831
US	1999-151736P	P	19990831
US	1999-151791P	P	19990831
US	1999-920594	A	19990908

US 1999-380913	A1	19990909
US 1999-153805P	P	19990914
US 1999-153806P	P	19990914
US 1999-153856P	P	19990914
US 1999-153857P	P	19990914
US 1999-153904P	P	19990914
US 1999-921090	A	19990915
WO 1999-US21090	A	19990915
CA 1999-2344465	A3	19991005
US 1999-403297	A1	19991018
US 1999-160407P	P	19991019
US 1999-160408P	P	19991019
US 1999-403844	A1	19991027
US 1999-162506P	P	19991029
US 1999-164495P	P	19991109
US 1999-164499P	P	19991109
US 1999-164500P	P	19991109
US 1999-423741	B1	19991110
US 1999-423844	B1	19991112
US 1999-166360P	P	19991116
US 1999-166363P	P	19991116
US 1999-166364P	P	19991116
EP 1999-960644	A3	19991202
US 1999-169495P	P	19991207
US 1999-170262P	P	19991209
US 1999-99309	A	19991220
US 1999-468978	A1	19991221
US 2000-441400	A	20000222
US 2000-187202P	P	20000303
US 2000-186968P	P	20000306
WO 2000-US6471	W	20000309
US 2000-189320P	P	20000314
US 2000-189328P	P	20000314
US 2000-190828P	P	20000321
US 2000-191048P	P	20000321
US 2000-191314P	P	20000321
US 2000-192655P	P	20000328
US 2000-193032P	P	20000329
US 2000-193053P	P	20000329
US 2000-194449P	P	20000404
US 2000-194647P	P	20000404
US 2000-195975P	P	20000411
US 2000-196000P	P	20000411
US 2000-196187P	P	20000411
US 2000-196690P	P	20000411
US 2000-196820P	P	20000411
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-199654P	P	20000425
US 2000-201516P	P	20000503
US 2000-204675P	P	20000517
US 2000-209832P	P	20000605
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JP 2001-520864	A3	20000824
US 2000-644610	A1	20000824
US 2000-232887P	P	20000915
US 2000-664610	B1	20000918
US 2000-665350	A1	20000918

US 2000-690189	A3 20001016
US 2000-709238	A1 20001108
US 2001-747259	B1 20001220
US 2001-802706	A1 20010309
US 2001-816920	B1 20010322
US 2001-866034	A1 20010525
WO 2001-US17443	W 20010530
US 2001-872034	A1 20010601
US 2001-872035	A1 20010601
US 2001-880457	A 20010612
US 2001-882636	B1 20010614
US 2001-869599	B1 20010629
US 2001-924419	A1 20010806
US 2001-927796	A1 20010809
WO 2001-US26626	W 20010823
US 2001-941992	A1 20010828
US 2001-946374	A1 20010904
US 2001-990711	A1 20011114
US 2001-2796	A 20011115
WO 2001-US48938	W 20011213
US 2002-52586	A1 20020115
WO 2002-US10513	W 20020403
US 2002-123155	A1 20020415
US 2002-127825	A1 20020422
US 2002-127966	B1 20020423
US 2002-141703	A1 20020508
US 2002-145627	A1 20020514
US 2002-145751	A 20020514
US 2002-146793	A1 20020515
US 2002-197703	B1 20020717
US 2002-197708	A1 20020717
US 2002-199666	A1 20020718
US 2002-199464	B1 20020719
US 2002-211858	A1 20020802
US 2004-797366	A1 20040309
JP 2005-54646	A3 20050228

ED Entered STN: 06 Dec 2002

AB The authors disclose the cloning, differential tissue expression, ligand specificity, and biol. activities for polypeptides and nucleic acids having sequence homol. with those for human interleukin-17 and IL-17 receptors.

IC ICM C07K014-715
ICS C07H021-04; C12P021-02; C12N005-06

INCL 435069100; 435325000; 435320100; 530350000; 536023500

CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 2, 3, 8

IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(of human interleukin-17 and IL-17 receptor homologs)

IT 477913-88-5P 477913-90-9P 477913-92-1P 477913-94-3P 477913-96-5P 477913-98-7P **477914-00-4P** 477914-02-6P 477914-04-8P
RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cloning, recombinant expression, and biol. activities for human interleukin-17 and IL-17 receptor homologs)

L16 ANSWER 18 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:850231 CAPLUS
DOCUMENT NUMBER: 137:368593
TITLE: Cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses
INVENTOR(S): Stahl, Neil
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 187 pp., Cont.-in-part of U. S. Ser. No. 787,835.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002164690	A1	20021107	US 2001-935868	20010823
US 2002012962	A1	20020131	US 1999-313942	19990519
US 6472179	B2	20021029		
WO 2000018932	A2	20000406	WO 1999-US22045	19990922 <--
WO 2000018932	A3	20001102		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1229047	A2	20020807	EP 2002-7831	19990922
EP 1229047	A3	20021002		
EP 1229047	B1	20041124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
EP 1405915	A1	20040407	EP 2003-24727	19990922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
HK 1045847	A1	20050324	HK 2002-107225	20010808
US 2003104567	A1	20030605	US 2002-287035	20021101

PRIORITY APPLN. INFO.:		
US 1998-101858P	P	19980925
US 1999-313942	A2	19990519
WO 1999-US22045	W	19990922
US 2001-787835	A2	20010322
EP 1999-952942	A3	19990922
HK 2001-105497	A	20010808
US 2001-935868	B2	20010823

ED Entered STN: 08 Nov 2002
AB Fusion proteins of the extracellular domains of cytokine receptors that can bind their cognate cytokines to form nonfunctional complexes are described. The proteins are fusions of the extracellular components of the ligand binding domains and signal transduction domains that are not capable of mediating ligand binding-induced signal transduction. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. The proteins can be used to antagonize cytokines in the treatment of immune disorders. Construction of a number of receptor fusion proteins and their ability to block cytokine function in several in vitro and in vivo tests is demonstrated.
IC ICM C12P021-02

ICS C07H021-04; C12N009-99; C12N005-06; C07K016-24
INCL 435069100
CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 3
ST cytokine antagonist receptor **fusion** protein
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(IgG1, **fusion** products, with cytokine receptors; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(IgG4, **fusion** products, with cytokine receptors; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Interleukin 1
Interleukin 13
Interleukin 4
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antagonists of; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Cytokines
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antagonists; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Ciliary neurotrophic factor
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(as cell-specific interleukin antagonist; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Human
(cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Interleukin receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT **Chimeric** gene, animal
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(for cytokine receptor **fusion** proteins; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT cDNA sequences
(for interleukin receptor **fusion** proteins; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**fusion** products, with cytokine receptors; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)
IT Interleukin 3 receptors
Interleukin 4 receptors

Interleukin 6 receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Cytokine receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**fusion** proteins; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(heavy chain, **fusion** products with cytokine receptors; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interleukin 13, **fusion** products; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(light chain, **fusion** products with cytokine receptors; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Protein sequences
(of interleukin receptor **fusion** proteins; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin 6 receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(receptor-associated glycoprotein gp130, ciliary neurotrophic factor binding to; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 475125-31-6 475125-33-8 475125-35-0 475125-37-2 475125-39-4
475125-41-8 475125-43-0 475125-45-2 475125-47-4 475125-49-6
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 475125-30-5 475125-32-7 475125-34-9 475125-36-1 475125-38-3
475125-40-7 475125-42-9 475125-44-1 475125-46-3 475125-48-5
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 475126-62-6
RL: PRP (Properties)
(unclaimed nucleotide sequence; cytokine receptor **fusion** proteins acting as cytokine antagonists and their therapeutic uses)

IT 475126-50-2 475126-51-3 475126-52-4 475126-53-5 475126-54-6
475126-55-7 475126-56-8 475126-57-9 475126-58-0 475126-59-1
475126-60-4 475126-61-5 475126-63-7 475126-64-8 475126-65-9
475126-66-0 **475126-67-1** 475126-68-2 475126-69-3
475126-70-6 475126-71-7
RL: PRP (Properties)
(unclaimed sequence; cytokine receptor **fusion** proteins acting

as cytokine antagonists and their therapeutic uses)

L16 ANSWER 19 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:658583 CAPLUS
DOCUMENT NUMBER: ~~137:212~~2014
TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues
INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 400 pp.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 2002119130	A1	20020829	US 2001-6867	20011206	
CA 2303834	AA	19990325	CA 1998-2303834	19980916	<--
JP 2002238586	A2	20020827	JP 2001-385205	19980916	
JP 2002238587	A2	20020827	JP 2001-385248	19980916	
JP 2002238588	A2	20020827	JP 2001-385315	19980916	
JP 2002253280	A2	20020910	JP 2001-385319	19980916	
NZ 528704	A	20050225	NZ 1999-528704	19990308	
CA 2328895	AA	19991209	CA 1999-2328895	19990602	<--
AU 9943286	A1	19991220	AU 1999-43286	19990602	<--
AU 761340	B2	20030605			
NZ 509079	A	20040227	NZ 1999-509079	19990602	
JP 2004516802	T2	20040610	JP 2000-552282	19990602	
CA 2450824	AA	20000420	CA 1999-2450824	19991005	<--
EP 1466977	A1	20041013	EP 2004-7618	19991202	
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NZ 523206	A	20041224	NZ 2000-523206	20000211	
NZ 523207	A	20041224	NZ 2000-523207	20000211	
NZ 517395	A	20040130	NZ 2000-517395	20000309	
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CA 2481788	AA	20010308	CA 2000-2481788	20000824	
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CA 2419541	AA	20020228	CA 2001-2419541	20010530	
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US 2003003530	A1	20030102	US 2001-904011	20010711	
US 2003104381	A1	20030605	US 2001-903823	20010711	
US 2003130489	A1	20030710	US 2001-903806	20010711	
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US 6664376	B2	20031216			

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US 2003152999	A1	20030814	US 2001-904766	20010712
US 2003211569	A1	20031113	US 2001-904938	20010712
US 2003148370	A1	20030807	US 2001-904838	20010713
US 2003152922	A1	20030814	US 2001-904532	20010713
US 2003023054	A1	20030130	US 2001-906742	20010716
US 2003027143	A1	20030206	US 2001-906838	20010716
US 2003113838	A1	20030619	US 2001-906815	20010716
US 2003148371	A1	20030807	US 2001-906777	20010716
US 2003190610	A1	20031009	US 2001-906618	20010716
US 6828146	B2	20041207		
US 2003215904	A1	20031120	US 2001-906722	20010716
US 6946262	B2	20050920		
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US 2002198366	A1	20021226	US 2001-907841	20010717
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US 2003027146	A1	20030206	US 2001-907942	20010717
US 2003104469	A1	20030605	US 2001-907652	20010717
US 2003190611	A1	20031009	US 2001-907728	20010717
US 2002132240	A1	20020919	US 2001-909320	20010718
US 2002146709	A1	20021010	US 2001-909088	20010718
US 2004005553	A1	20040108	US 2001-908576	20010718
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
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JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003130181	A1	20030710	US 2001-978375	20011016
US 2003199436	A1	20031023	US 2001-978544	20011016
US 2003199674	A1	20031023	US 2001-978802	20011016
US 2003180311	A1	20030925	US 2001-143029	20011019
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US 2003194744	A1	20031016	US 2001-17086	20011024
US 2003195344	A1	20031016	US 2001-999829	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
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US 2002137075	A1	20020926	US 2001-993604	20011114
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US 6930170	B2	20050816		
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US 2002198149	A1	20021226	US 2001-993687	20011114
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US 2003027985	A1	20030206	US 2001-990562	20011114
US 2003032023	A1	20030213	US 2001-990711	20011114
US 2003054987	A1	20030320	US 2001-990443	20011114
US 2003054359	A1	20030320	US 2001-990726	20011114
US 2003060407	A1	20030327	US 2001-990440	20011114

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US 2003068623	A1	20030410	US 2001-993469	20011114
US 2003069403	A1	20030410	US 2001-993748	20011114
US 2003073809	A1	20030417	US 2001-990427	20011114
US 2003077594	A1	20030424	US 2001-993583	20011114
US 2003083461	A1	20030501	US 2001-992521	20011114
US 2003027162	A1	20030206	US 2001-997428	20011115
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US 2003068647	A1	20030410	US 2001-997542	20011115
US 2003087304	A1	20030508	US 2001-997333	20011115
US 6953836	B2	20051011		
US 2003087305	A1	20030508	US 2001-997384	20011115
US 2003119055	A1	20030626	US 2001-997585	20011115
US 2003119001	A1	20030626	US 2001-998041	20011115
US 2003124531	A1	20030703	US 2001-997614	20011115
US 2003134284	A1	20030717	US 2001-997529	20011115
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WO 1999-US5028	W	19990308
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ED Entered STN: 30 Aug 2002
AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 84 cDNA clones encoding secreted or transmembrane proteins in human tissues were identified by extracellular domain homol. screening, amylase screening, and/or signal algorithm anal. Biol. activities exhibited by certain of the proteins include, induction of c-fos in pericytes, stimulated release of proteoglycans from cartilage, modulated glucose or free fatty acid uptake in skeletal muscle, and stimulated TNF-α release in human blood. Differential tissue expression in tumor vs. normal tissues is also demonstrated. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.
IC ICM C12Q001-68
ICS G01N033-53; C07H021-04; A61K038-43; C12N009-00; C12P021-02; C12N005-06; C07K014-435
INCL 424094100
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 9, 13
IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**fusion** products; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)
IT **Fusion** proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(with epitope tags or Fc region of Ig; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)
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454488-72-3P 454488-74-5P 454488-76-7P 454488-78-9P 454488-80-3P
454488-82-5P 454488-84-7P 454488-86-9P 454488-88-1P 454488-90-5P
454488-92-7P 454488-94-9P 454488-96-1P 454488-98-3P 454489-00-0P
454489-02-2P 454489-04-4P 454489-06-6P 454489-08-8P 454489-10-2P
454489-12-4P 454489-14-6P 454489-16-8P 454489-18-0P 454489-20-4P
454489-22-6P 454489-24-8P 454489-26-0P 454489-28-2P 454489-30-6P
454489-32-8P 454489-34-0P 454489-36-2P 454489-38-4P 454489-40-8P
454489-42-0P 454489-44-2P 454489-46-4P 454489-48-6P
RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

L16 ANSWER 20 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:575645 CAPLUS
DOCUMENT NUMBER: 137:136066
TITLE: Genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses

INVENTOR(S): Cunningham, Francis X.; Sun, Zairen
PATENT ASSIGNEE(S): University of Maryland, USA
SOURCE: U.S. Pat. Appl. Publ., 85 pp., Cont.-in-part of U.S. Ser. No. 88,725, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002102631	A1	20020801	US 1999-323998	19990602
US 6642021	B2	20031104		
US 5744341	A	19980428	US 1996-624125	19960329 <--
US 6524811	B1	20030225	US 1997-937155	19970925
PRIORITY APPLN. INFO.:			US 1996-624125 A3	19960329
			US 1997-937155 A2	19970925
			US 1998-88724 B2	19980602
			US 1998-88725 B2	19980602

ED Entered STN: 02 Aug 2002
AB Nucleic acid sequences encoding ε-cyclase, isopentenyl pyrophosphate isomerase and β-carotene hydroxylase as well as vectors containing the same and hosts transformed with the vectors. Methods for controlling the ratio of various carotenoids in a host and for the production of novel carotenoid pigments. The present invention also provides a method for screening for eukaryotic genes encoding carotenoid biosynthesis, and for modifying the disclosed enzymes.
IC ICM C12P023-00
INCL 435067000
CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 5, 7, 10, 11
IT **Fusion** proteins (**chimeric** proteins)
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)
IT 444389-14-4 444389-16-6 444389-17-7 **444389-40-6**
RL: PRP (Properties)
(Unclaimed; genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)
IT 444388-54-9 **444388-56-1** 444388-58-3, Cyclase, lycopene ε- (potato) 444388-59-4 444388-60-7
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)
IT 444389-21-3 444389-36-0 444389-37-1 **444389-39-3**
RL: PRP (Properties)
(unclaimed sequence; genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)

L20 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:403490 CAPLUS
DOCUMENT NUMBER: 113:3490
TITLE: Control of calcium carbonate crystallization by **polyanionic**-hydrophobic polypeptides

AUTHOR(S): Sikes, C. Steven; Wheeler, A. P.
CORPORATE SOURCE: Dep. Biol. Sci., Univ. South Alabama, Mobile, AL, 36688, USA
SOURCE: Chem. Aspects Regul. Miner., Proc. Symp. Div. Ind. Eng. Chem. Am. Chem. Soc. (1988), Meeting Date 1987, 15-20. Editor(s): Sikes, C. Steven; Wheeler, A. P. Univ. South Ala. Publ. Serv.: Mobile, Ala.
CODEN: 56SWAP
DOCUMENT TYPE: Conference
LANGUAGE: English
ED Entered STN: 06 Jul 1990
AB Oyster shell matrix and other protein inhibitors of crystal formation have polyanionic and hydrophobic domains, often at sep. ends of the mols. The polyanion-hydrophobe (PAH) hypothesis states that the polyanionic region adsorbs to the mineral surface, stopping mineral formation there, and the hydrophobic region extends from the surface, disrupting diffusion of lattice ions to the surface. An evaluation of the PAH hypothesis by using synthetic peptides composed of polyaspartate and polyalanine regions demonstrated that a hydrophobic terminus did in fact enhance inhibition of $CaCO_3$ crystallization by the peptides. The primary effect was on crystal nucleation rather than crystal growth. A polyaspartate mol. of 40 residues appeared to be the optimal size for inhibition of crystal nucleation. Ordered copolymers of Gly-Asp, Ser-Asp, and Gly-Ser-Asp were not very effective inhibitors of crystallization
CC 12-6 (Nonmammalian Biochemistry)
Section cross-reference(s): 75
IT Oyster
(calcium carbonate crystallization inhibition by protein of matrix of shell of,
polyanionic-hydrophobic domains in relation to)
IT Peptides, properties
RL: PRP (Properties)
(crystallization of calcium carbonate inhibition by, **polyanionic**-hydrophobic domains in relation to)
IT Crystal growth
Crystal nucleation
(of calcium carbonate, peptide inhibition of, **polyanionic**-hydrophobic domains in relation to)
IT Molecular structure-biological activity relationship
(mineralization-inhibiting, of peptides, **polyanionic**-hydrophobic domains in relation to)
IT Phosphoproteins
RL: BIOL (Biological study)
(shell matrix-associated, RP-1, calcium carbonate crystallization inhibition by,
polyanionic-hydrophobic domains in relation to)
IT 25608-40-6 26063-13-8 123690-43-7 **123690-44-8** 123690-45-9
123690-46-0 123690-48-2 124219-00-7 127317-46-8 127317-47-9
127317-48-0 127317-49-1 127317-50-4 127317-51-5 127317-52-6
127317-53-7 127317-54-8 127317-55-9 127317-56-0 127317-57-1
127317-58-2 127463-32-5 127463-36-9
RL: BIOL (Biological study)
(calcium carbonate crystallization inhibition by, **polyanionic**-hydrophobic domains in relation to)
IT 471-34-1, Calcium carbonate, biological studies
RL: BIOL (Biological study)
(crystallization of, peptide inhibition of, **polyanionic**-hydrophobic domains in)

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Inventor search

Agnes Rooke 10/015,956

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     (FILE 'CAPLUS' ENTERED AT 12:47:33 ON 19 DEC 2005)
               DEL HIS Y

     FILE 'REGISTRY' ENTERED AT 12:54:27 ON 19 DEC 2005
               D SAVE
               ACT AGNESCL1/A
              ---------
L1          251 SEA ABB=ON  PLU=ON  (AG){5-8}/SQSP
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               ACT AGNESCL1B/A
              ---------
L2        25163 SEA ABB=ON  PLU=ON  (AG){1-8}EG/SQSP
              ---------
               ACT AGNESCL57A/A
              ---------
L3         1622 SEA ABB=ON  PLU=ON  (AG){1-8}PDG/SQSP
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               ACT AGNESCL57B/A
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L4        29037 SEA ABB=ON  PLU=ON  (AG){1-8}DG/SQSP
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     FILE 'CAPLUS' ENTERED AT 12:55:21 ON 19 DEC 2005
               E TIRRELL D/AU
L5          409 SEA ABB=ON  PLU=ON  TIRRELL D?/AU
L6       246899 SEA ABB=ON  PLU=ON  PROTEIN SEQUENC?/OBI
L7           13 SEA ABB=ON  PLU=ON  L5 AND L6
L8       172739 SEA ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L9         4411 SEA ABB=ON  PLU=ON  POLYCATION?/OBI OR POLYANION?/OBI
L10           7 SEA ABB=ON  PLU=ON  L5 AND L8
L11           2 SEA ABB=ON  PLU=ON  L5 AND L9
               D TI 1-2
               D SCAN
L12          22 SEA ABB=ON  PLU=ON  L7 OR L10 OR L11


     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.

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     DICTIONARY FILE UPDATES:  18 DEC 2005  HIGHEST RN 870123-57-2

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     * effective March 20, 2005.  A new display format, IDERL, is now    *
     * available and contains the CA role and document type information. *
     *                                                          *
     ************************************************************
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http://www.cas.org/ONLINE/UG/regprops.html

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FILE COVERS 1907 - 19 Dec 2005 VOL 143 ISS 26
FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

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http://www.cas.org/infopolicy.html

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L5          409 SEA FILE=CAPLUS ABB=ON  PLU=ON  TIRRELL D?/AU
L6       246899 SEA FILE=CAPLUS ABB=ON  PLU=ON  PROTEIN SEQUENC?/OBI
L7           13 SEA FILE=CAPLUS ABB=ON  PLU=ON  L5 AND L6
L8       172739 SEA FILE=CAPLUS ABB=ON  PLU=ON  FUSION/OBI OR CHIMER?/OBI
L9         4411 SEA FILE=CAPLUS ABB=ON  PLU=ON  POLYCATION?/OBI OR POLYANION?/O
                BI
L10           7 SEA FILE=CAPLUS ABB=ON  PLU=ON  L5 AND L8
L11           2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L5 AND L9
L12          22 SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 OR L10 OR L11


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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L12  ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:        2005:1242590  CAPLUS
TITLE:                   Modulating pH-sensitive binding using non-natural
                         amino acids
INVENTOR(S):             Datta, Deepshikha; Goddard, William A.; Tirrell,
                         David; Peng, Joyce Yaochun
PATENT ASSIGNEE(S):      USA
SOURCE:                  U.S. Pat. Appl. Publ., 42 pp.
                         CODEN: USXXCO
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005260711	A1	20051124	US 2005-94625	20050330

PRIORITY APPLN. INFO.: US 2004-557541P P 20040330

ED Entered STN: 25 Nov 2005

AB The invention provides methods, systems and reagents for regulating pH-sensitive protein interaction by incorporating non-natural amino acids into the protein (e.g. an antibody, or its functional fragment, derivative, etc.). The invention also relates to specific uses in regulating pH-sensitive binding of antibodies to tumor site, by conferring enhanced tumor-specificity/selectivity. In that embodiment, the non-natural amino acids preferably have desirable side-chain pKa's, such that at below physiol. pH (e.g. about pH 6.3-6.5) the non-natural amino acid confer enhanced binding to tumor antigens in acidic environments. Such non-natural amino acids can be incorporated by any suitable means, such as by utilizing a modified aminoacyl-tRNA synthetase to charge the nonstandard amino acid to a modified tRNA, which forms strict Watson-Crick base-pairing with a codon that normally forms wobble base-pairing with natural tRNAs (e.g. the degenerate codon orthogonal system).

IC ICM C12P021-06
ICS C07H021-04; C07K016-44; C12N005-06

INCL 435069100; 435320100; 435326000; 530387300; 536023530

CC 6-3 (General Biochemistry)

IT 870019-05-9 870019-06-0
RL: PRP (Properties)
(unclaimed **protein sequence**; modulating pH-sensitive binding using non-natural amino acids)

L12 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:732520 CAPLUS

DOCUMENT NUMBER: 143:216572

TITLE: Synthetic proteins for use in the development of lenses for treatment of disorders of optical tissues

INVENTOR(S): **Tirrell, David A.**; Schwartz, Daniel M.; Nowatzki, Paul J.; Grubbs, Robert H.

PATENT ASSIGNEE(S): California Institute of Technology, USA; The Regents of The University of California-San Francisco

SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005072223	A2	20050811	WO 2005-US1773	20050121
WO 2005072223	A3	20050909		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005196427 A1 20050908 US 2005-40130 20050121
PRIORITY APPLN. INFO.: US 2004-538844P P 20040123
US 2004-552029P P 20040310

ED Entered STN: 12 Aug 2005

AB Synthetic proteins that can be used to form lenses for use as overlays on the eyes to treat vision problems are described. These proteins include fibronectin domains, including RGD domains, and elastin domains. They may be crosslinked to form a lens that is free of impurities, well-tolerated, transparent, and permeable to small mols. They bind to other proteins and allow corneal tissue to bind and colonize them and so can protect tissue while it is healing. They may be used in contact lenses and corneal onlays and inlays. The proteins were manufactured by expression of the corresponding gene in Escherichia coli and were purified by use of a removable hexahistidine tag. Onlays were formed by crosslinking the protein with bis(sulfosuccinimidyl)suberate in molds. These onlays were used to cover abraded patches on the cornea of rabbits. Corneal epithelium colonized the onlay and showed a normal development and complete coverage within a week. Inflammation was present, but at low levels.

IC ICM C12N

CC 63-3 (Pharmaceuticals)
Section cross-reference(s): 3, 14

IT **Protein sequences**
(of synthetic protein for optical devices; synthetic proteins for use in development of lenses for treatment of disorders of optical tissues)

IT 862235-30-1 862235-31-2 862235-32-3 862235-33-4 862235-34-5
862235-35-6 862235-36-7 862235-37-8 862235-38-9 862235-39-0
862235-40-3 862235-41-4 862235-42-5 862235-43-6 862235-44-7
862235-45-8 862235-46-9
RL: PRP (Properties)
(unclaimed **protein sequence**; synthetic proteins for use in the development of lenses for treatment of disorders of optical tissues)

L12 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:559603 CAPLUS
DOCUMENT NUMBER: ~~143~~:225181
TITLE: Artificial Polypeptide Scaffold for Protein Immobilization
AUTHOR(S): Zhang, Kechun; Diehl, Michael R.; **Tirrell, David A.**
CORPORATE SOURCE: Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 91125, USA
SOURCE: Journal of the American Chemical Society (2005), 127(29), 10136-10137
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

ED Entered STN: 29 Jun 2005

AB An artificial polypeptide scaffold composed of surface anchor and protein capture domains was designed and expressed in vivo. By using a mutant E. coli phenylalanyl-tRNA synthetase, the photoreactive amino acid para-azidophenylalanine was incorporated into the surface anchor domain. Octyltrichlorosilane-treated surfaces were functionalized with this polypeptide by spin coating and photocrosslinking. The resulting protein films were shown to immobilize recombinant proteins through association of coiled coil heterodimer.

CC 9-1 (Biochemical Methods)

IT Proteins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(green fluorescent, **fusion** protein with leucine zipper tag; artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

IT **Fusion** proteins (**chimeric** proteins)
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(leucine zipper-containing; artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

IT 50812-37-8DP, Glutathione S-transferase, **fusion** protein with leucine zipper tag
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

IT 5283-66-9D, Octyltrichlorosilane, glass substrate conjugates with polypeptide scaffold and 862917-16-6D, leucine zipper tag, **fusion** proteins with
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:905679 CAPLUS
DOCUMENT NUMBER: 141:391547
TITLE: Method for stabilization of proteins using non-natural amino acids
INVENTOR(S): **Tirrell, David A.**; Tang, Yi
PATENT ASSIGNEE(S): California Institute of Technology, USA
SOURCE: U.S. Pat. Appl. Publ., 28 pp., Cont. of U.S. Ser. No. 620,691, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004214988	A1	20041028	US 2004-851564		20040521
PRIORITY APPLN. INFO.:			US 2000-191640P	P	20000323
			US 2000-620691	B1	20000720

ED Entered STN: 29 Oct 2004
AB The present invention provides a method for producing modified stable polypeptides introducing at least one non-natural amino acid into the hydrophobic region of the polypeptide. The thermal and chemical stability of such polypeptides is improved compared to those properties of its corresponding wild type proteins. The invention further provides purified

leucine zipper and coiled-coil proteins in which the leucine residues have been replaced with 5,5,5-trifluoroleucines, and the modified proteins so produced demonstrate increased thermal and chemical stability compared to their corresponding wild-type natural proteins.

IC ICM C07K014-47
INCL 530324000
CC 9-16 (Biochemical Methods)
Section cross-reference(s): 16
IT 787250-72-0 787250-73-1
RL: PRP (Properties)
(unclaimed **protein sequence**; method for stabilization of proteins using non-natural amino acids)

L12 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:573765 CAPLUS
DOCUMENT NUMBER: 141:327798
TITLE: Coiled-coil peptide-based assembly of gold nanoparticles
AUTHOR(S): Stevens, Molly M.; Flynn, Nolan T.; Wang, Chun; **Tirrell, David A.**; Langer, Robert
CORPORATE SOURCE: Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA
SOURCE: Advanced Materials (Weinheim, Germany) (2004), 16(11), 915-918
CODEN: ADVMEW; ISSN: 0935-9648
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 19 Jul 2004
AB In this report, the specific biomol. recognition between artificial leucine zipper-like peptides was used to assemble gold nanoparticles. The proposed approach for nanoparticle assembly is shown to be extremely versatile due to the ability to easily engineer a variety of peptide sequences with different stabilities and structures for specific applications. In addition, this method offers the unique ability to dynamically control the size and optical properties of the generated assemblies under mild conditions of pH and may be of interest for future bioengineering and medical applications.
CC 9-1 (Biochemical Methods)
IT Circular dichroism spectroscopy
Nanoparticles
Protein sequences
Self-assembly
UV and visible spectroscopy
(coiled-coil peptide-based assembly of gold nanoparticles)
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:402748 CAPLUS
DOCUMENT NUMBER: 140:387555
TITLE: Photoresponsive bioelastomeric polypeptides which display inverse temperature transitions and are useful in transducing light energy with a change in hydrophobicity or polarity
INVENTOR(S): Urry, Dan W.; **Tirrell, David A.**; Heimbach, Catherine Jean
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 34 pp., Cont. of U.S. Ser. No. 32,373.

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003166840	A1	20030904	US 2001-759947	20010112
US 5900405	A	19990504	US 1995-487594	19950607
WO 9723729	A1	19970703	WO 1996-US9776	19960607
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 830509	A1	19980325	EP 1996-921441	19960607
EP 830509	B1	20010912		
R: DE, FR, GB				
JP 11508274	T2	19990721	JP 1996-519202	19960607

PRIORITY APPLN. INFO.:

US 1994-187441	B3	19940124
US 1995-485426	B1	19950607
US 1998-32373	B1	19980227
US 1995-487594	A	19950607
WO 1996-US9776	W	19960607

ED Entered STN: 19 May 2004

AB A bioelastomeric composition is provided that expands or contracts upon a change in exposure to light energy that comprises a protein or protein-based polymeric material having an inverse temperature transition in the range of liquid water. At least a fraction of the monomers in the polymer contain an light energy-responsive group that undergoes a change in hydrophobicity or polarity upon a change in exposure to light energy and is present in an amount sufficient to provide a shift in the inverse temperature transition of the polymer upon the change in exposure to light energy. Compns. of the invention, including those further containing a side-chain chemical couple, can be used in a variety of different applications to produce mech. work, cause turbidity changes, cause chemical changes in an enclosed environment, or transduce other free energies by varying the exposure to light energy on the composition The degree and efficiency of mech. or chemical change can be controlled by, inter alia, selection of the type, amount, position, and mole fraction of the light energy-responsive side chain group and hydrophobic residues in the polymer. Thus, a copolypeptide comprising poly[0.68(VPGVG),0.32(VPGEG)] coupled via the glutamic acid residues to phenylazoaniline displays cis-trans isomerization on irradiation at 350 nm, and an inverse temperature transition sensitive to the configuration of the azobenzene chromophore: .apprx.32° for the trans form and .apprx.42° for the cis form when buffered at pH 4.1. Reversible photomodulation of the transition is achieved isothermally at 40°. Addnl. copolypeptides derivatized cinnamic acid, cinnamaldehyde, or spiropyran display inverse temperature transition responsive to irradiation with light in the visible, UV, or IR ranges.

IC ICM C07K016-00
INCL 530350000; 430269000
CC 6-3 (General Biochemistry)
Section cross-reference(s): 34, 36
IT 685927-75-7 685927-76-8 685927-77-9 685927-78-0
RL: PRP (Properties)
(unclaimed **protein sequence**; photoresponsive bioelastomeric polypeptides which display inverse temperature transitions and

are useful in transducing light energy with a change in hydrophobicity or polarity)

L12 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:114360 CAPLUS
DOCUMENT NUMBER: 138:343770
TITLE: Mechanical Properties of Artificial Protein Matrixes Engineered for Control of Cell and Tissue Behavior
AUTHOR(S): Di Zio, Kathleen; **Tirrell, David A.**
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Macromolecules (2003), 36(5), 1553-1558
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 14 Feb 2003
AB Genetic engineering methods were used for the preparation of artificial proteins containing sequences designed to reproduce essential features of the extracellular matrix (ECM). The long-term objective of the work is to develop matrixes for use in the engineering of small-diameter vascular grafts. The CS5 domain of fibronectin provides binding sites for vascular endothelial cells, while an elastin-like repeat, [(VPGIG)2(VPGKG)(VPGIG)2], controls the mech. properties and includes sites for covalent crosslinking. Bis(sulfosuccinimidyl) suberate and disuccinimidyl suberate were used to crosslink artificial ECM protein films for uniaxial tensile testing. Variation in the amount of crosslinker and protein weight fraction allowed preparation of films with Young's moduli ranging from 0.07 to 0.97 MPa. The weight fraction of protein in the hydrated, crosslinked films was measured to be between 0.2 and 0.4; the mol. weight between crosslinks (Mc) varied from 3000 to 38,000. The moduli and Mc of the films span the ranges reported for natural elastins.
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 3
IT Biological materials
Extracellular matrix
Molecular cloning
Protein sequences
Stress-strain relationship
Young's modulus
(mech. properties of artificial protein matrixes engineered for control of cell and tissue behavior)
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:490824 CAPLUS
DOCUMENT NUMBER: 133:125284
TITLE: Genetic engineering for production of block-copolymer reversible hydrogels
INVENTOR(S): Petka, Wendy A.; **Tirrell, David A.**; McGrath, Kevin P.
PATENT ASSIGNEE(S): University of Massachusetts, USA
SOURCE: U.S., 53 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6090911	A	20000718	US 1997-956307	19971022

PRIORITY APPLN. INFO.: US 1997-956307 19971022
ED Entered STN: 20 Jul 2000
AB The invention is based on the discovery that a block copolymer that includes α-helical blocks, e.g., terminal blocks, which form intermol. coiled-coil structures, and one or more random-coil blocks, which link the α-helical blocks, can form suspensions that can reversibly gel to form monodisperse hydrogels. The transition between the gel and liquid phases depends on pH, temperature, concentration, and chemical structure.
The copolymers can be synthesized biol. through genetic engineering.
IC ICM C07K014-00
ICS A61K031-74; A61K038-00
INCL 530300000
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 3
IT Fibroblast
Genetic engineering
Molecular cloning
Plasmid vectors
Protein sequences
Wound healing promoters
α-Helix
(genetic engineering for production of block-copolymer reversible hydrogels)
IT 213390-97-7 213390-98-8 284059-97-8 284060-00-0 284474-27-7
284474-36-8
RL: PRP (Properties)
(unclaimed **protein sequence**; genetic engineering for production of block-copolymer reversible hydrogels)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:83679 CAPLUS
DOCUMENT NUMBER: 132:241880
TITLE: Engineering the Extracellular Matrix: A Novel Approach to Polymeric Biomaterials. I. Control of the Physical Properties of Artificial Protein Matrices Designed to Support Adhesion of Vascular Endothelial Cells
AUTHOR(S): Welsh, Eric R.; **Tirrell, David A.**
CORPORATE SOURCE: Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Biomacromolecules (2000), 1(1), 23-30
CODEN: BOMAF6; ISSN: 1525-7797
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 04 Feb 2000
AB Methods of genetic engineering were applied to the design and biosynthesis of three extracellular matrix protein analogs constructed from identical elastin- and fibronectin-derived repeating units but characterized by different mol. wts. in the range of 14 000 to 59 000. Expression levels were enhanced by the serendipitous choice of an N-terminal fusion sequence such that gram-scale syntheses were achieved for each protein. Purification protocols were developed that resulted in proteins of high purity and correct sequence, as determined by amino acid anal., NMR spectroscopy, and lower critical solution temperature (LCST). Glutaraldehyde was shown to insolubilize

the otherwise soluble proteins in a concentration-dependent manner. Tensile moduli of cross-linked protein films were measured and found to be inversely related to the mol. wts. of the engineered proteins, which in each case corresponds to the theor. mol. weight between cross-links. At the highest cross-link d. (lowest mol. weight) the elastic modulus was similar to that of native elastin.

CC 63-7 (Pharmaceuticals)

IT Biological materials
Cell adhesion
Extracellular matrix
Molecular cloning
Protein sequences
cDNA sequences
(cloning of extracellular matrix elastin and fibronectin for adhesion of vascular endothelium)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:780851 CAPLUS
DOCUMENT NUMBER: 132:133867
TITLE: pH-Induced **Fusion** and Lysis of Phosphatidylcholine Vesicles by the Hydrophobic Polyelectrolyte Poly(2-ethylacrylic Acid)
AUTHOR(S): Linhardt, Jeffrey G.; **Tirrell, David A.**
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Langmuir (2000), 16(1), 122-127
CODEN: LANGD5; ISSN: 0743-7463
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 10 Dec 1999

AB Poly(2-ethylacrylic acid) [PEAA] was shown to induce fusion of phosphatidylcholine bilayer membranes under mildly acidic conditions. The pH-dependent destabilization and fusion of extruded large unilamellar vesicles (LUVs) by PEAA was characterized by optical d. measurements, TEM, and lipid-mixing and contents-release assays. Reduction of either the chain length or the polymer concentration caused the fusion and contents-release events to shift to lower pH values. Release of entrapped calcein was observed at pH values approx. 1 unit higher than those found to cause membrane fusion. Decreased levels of fusion were observed when the concentration of PEAA was lower than that of the lipid; however, quant. release of encapsulated calcein could be effected at very low polymer concns. (.apprx.3% weight/weight PEAA/lipid).

CC 6-6 (General Biochemistry)

ST membranes **fusion** polyethylacrylate calcein

IT Bilayer membranes
Fusion, biological
(pH-induced **fusion** and lysis of phosphatidylcholine vesicles by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid))

IT 9003-01-4, Polyacrylic acid 25087-26-7, Polymethacrylic acid 25722-70-7D, Polyglycidol, succinylated 62607-09-4, Polyethacrylic acid
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(pH-induced **fusion** and lysis of phosphatidylcholine vesicles by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid))

IT 1461-15-0, Calcein
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(pH-induced **fusion** and lysis of phosphatidylcholine vesicles by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid))
REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:708802 CAPLUS
DOCUMENT NUMBER: 131:341998
TITLE: **Polyanionic** polymers which enhance fusogenicity
INVENTOR(S): Chen, Tao; He, Yuehua; Cullis, Peter; Madden, Thomas; Scherrer, Peter; Kim, Jung Soo; **Tirrell, David**; Joshi, Phalgun
PATENT ASSIGNEE(S): Inex Pharmaceuticals Corporation, Can.
SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955743	A1	19991104	WO 1999-US9076	19990427
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9937640	A1	19991116	AU 1999-37640	19990427
EP 1100834	A1	20010523	EP 1999-920057	19990427
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1998-83294P P 19980428
WO 1999-US9076 W 19990427

ED Entered STN: 05 Nov 1999
AB The present invention relates generally to the amphiphilic polyelectrolyte, poly(2-ethylacrylic acid) (PEAA) and covalently bonded lipids to generate Lipo-PEAA. These Lipo-PEAA are then used to make pH-sensitive liposomes which become unstable, permeable or fusogenic with certain pH changes. In addition, this invention generally describes methods for delivering therapeutic compds. and drugs to target cells by administering to a host the pH-sensitive liposomes of the present invention. Pyrene-labeled PEAA was prepared and treated with 1-decylamine to the a lipo-PEAA. Examples of other acrylate polymer derivs. were given as well as liposomes formulation with lipo-PEAA.
IC ICM C08F008-32
ICS C08F008-34; A61K009-127
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 35
IT Drug delivery systems
(liposomes; **polyanionic** polymers which enhance fusogenicity)
IT Detergents

(**polyanionic** polymers which enhance fusogenicity)
IT Lipids, biological studies
Peptides, biological studies
Phosphatidylcholines, biological studies
Phospholipids, biological studies
Proteins, general, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**polyanionic** polymers which enhance fusogenicity)
IT Polyoxyalkylenes, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**polyanionic** polymers which enhance fusogenicity)
IT 57-88-5, Cholesterol, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**polyanionic** polymers which enhance fusogenicity)
IT 530-48-3, 1,1-Diphenylethylene 3586-58-1, 2-Ethylacrylic acid 4390-96-9, 2-Ethylacryloyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(**polyanionic** polymers which enhance fusogenicity)
IT 85316-33-2P, 1,1-Diphenylpropyllithium 219506-75-9P, Benzyl 2-ethylacrylate 249924-76-3P 249924-77-4P 249924-78-5P 249924-79-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(**polyanionic** polymers which enhance fusogenicity)
IT 2016-57-1DP, 1-Decanamine, reaction products with poly(ethylacrylic acid)-pyrene derivative 62607-09-4DP, Poly(2-ethylacrylic acid), lipids derivs. 78377-23-8DP, 1-DiazomethylPyrene, reaction products with poly(ethylacrylic acid)
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**polyanionic** polymers which enhance fusogenicity)
IT 2644-64-6, Dipalmitoylphosphatidylcholine 4539-70-2, Distearoylphosphatidylcholine 18656-38-7, Dimyristoylphosphatidylcholine 18656-40-1, Dilauroylphosphatidylcholine 25322-68-3 68737-67-7
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**polyanionic** polymers which enhance fusogenicity)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:211204 CAPLUS
DOCUMENT NUMBER: 131:35758
TITLE: Functionalized liposomes for use in drug delivery: pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)
AUTHOR(S): Linhardt, Jeffrey G.; **Tirrell, David A.**
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(1), 310-311
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 05 Apr 1999
AB Solvent fractionation was effective in reducing the polydispersity of a

poly(2-ethylacrylic acid) (PEAA) sample obtained from a bulk free radical polymerization The effects of mol. weight and polydispersity on the conformation collapse of PEAA in solution were demonstrated. PEAA has also been shown to cause pH-dependent fusion of liposomes. A lipid mixing fusion assay was used to confirm the fusion data obtained by electron microscopy. Calcein release was sued to determine that the membrane becomes permeable to encapsulated materials 0.4 pH units higher than where fusion occurs.

CC 63-5 (Pharmaceuticals)

ST liposome **fusion** lysis phosphatidylcholine polyethylacrylate

IT Drug delivery systems
(liposomes; pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

IT Dissolution rate
(pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

IT Phosphatidylcholines, biological studies
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

IT 62607-09-4, Poly(2-ethylacrylic acid)
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:211164 CAPLUS

DOCUMENT NUMBER: 131:23375

TITLE: Functionalized liposomes for use in drug delivery: pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)

AUTHOR(S): Linhardt, Jeffrey G.; **Tirrell, David A.**

CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(1), 236-237
CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 05 Apr 1999

AB Solvent fractionation was effective in reducing the polydispersity of a poly(2-ethylacrylic acid) (PEAA) sample obtained from a bulk free radical polymerization The effects of mol. weight and polydispersity on the conformational collapse of PEAA in solution were demonstrated. PEAA caused pH-dependent fusion of liposomes. A lipid mixing fusion assay was used to confirm the fusion data obtained by electron microscopy. Calcein release was used to determine that the membrane becomes permeable to encapsulated materials 0.4 pH units higher than where fusion occurs.

CC 63-5 (Pharmaceuticals)

IT Drug delivery systems
(liposomes; pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in

functionalized liposomes for drug delivery)
IT Dissolution rate
(pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in functionalized liposomes for drug delivery)
IT Phosphatidylcholines, biological studies
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in functionalized liposomes for drug delivery)
IT 62607-09-4P, Poly(2-ethylacrylic acid)
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in functionalized liposomes for drug delivery)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:146328 CAPLUS
TITLE: Functionalized liposomes for use in drug delivery: pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)
AUTHOR(S): Linhardt, Jeffrey G.; **Tirrell, David A.**
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), POLY-292. American Chemical Society: Washington, D. C. CODEN: 67GHA6
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
ED Entered STN: 08 Mar 1999
AB Poly(2-ethylacrylic acid) [PEAA] is a pH dependent membrane permeabilizing agent and can be utilized in developing responsive liposomes for targeted drug delivery. The pH dependent interactions of PEAA with phosphatidylcholine membranes has been studied and pH induced fusion was observed Furthermore, the effects of mol. weight and polydispersity of PEAA on its conformational collapse, fusion, and lysis properties will be described.

L12 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:146206 CAPLUS
TITLE: Functionalized liposomes for use in drug delivery: pH dependent **fusion** and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)
AUTHOR(S): Linhardt, Jeffrey G.; **Tirrell, David A.**
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), POLY-170. American Chemical Society: Washington, D. C. CODEN: 67GHA6
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
ED Entered STN: 08 Mar 1999

AB Poly(2-ethylacrylic acid) [PEAA] is a pH dependent membrane permeabilizing agent and can be utilized in developing responsive liposomes for targeted drug delivery. The pH dependent interactions of PEAA with phosphatidylcholine membranes has been studied and pH induced fusion was observed Furthermore, the effects of mol. weight and polydispersity of PEAA on its conformational collapse, fusion, and lysis properties will be described.

L12 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:472390 CAPLUS
DOCUMENT NUMBER: 129:256614
TITLE: Reversible hydrogels from self-assembling artificial proteins
AUTHOR(S): Petka, Wendy A.; Hardin, James L.; McGrath, Kevin P.; Wirtz, Denis; **Tirrell, David A.**
CORPORATE SOURCE: Dep. Polymer Sci. Eng., Univ. Massachusetts, Amherst, MA, 01003, USA
SOURCE: Science (Washington, D. C.) (1998), 281(5375), 389-392
CODEN: SCIEAS; ISSN: 0036-8075
PUBLISHER: American Association for the Advancement of Science
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 30 Jul 1998
AB Recombinant DNA methods were used to create artificial proteins that undergo reversible gelation in response to changes in pH or temperature The proteins consist of terminal leucine zipper domains flanking a central, flexible, water-soluble polyelectrolyte segment. Formation of coiled-coil aggregates of the terminal domains in near-neutral aqueous solns. triggers formation of a three-dimensional polymer network, with the polyelectrolyte segment retaining solvent and preventing precipitation of the chain. Dissociation of the coiled-coil aggregates through elevation of pH or temperature causes dissoln. of the gel and a return to the viscous behavior that is characteristic of polymer solns. The mild conditions under which gel formation can be controlled (near-neutral pH and near-ambient temperature) suggest that these materials have potential in bioengineering applications requiring encapsulation or controlled release of mol. and cellular species.
CC 6-3 (General Biochemistry)
Section cross-reference(s): 35
IT Gelation
Hydrogels
Protein sequences
Self-assembly
(reversible hydrogels from self-assembling artificial proteins)
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:6587 CAPLUS
DOCUMENT NUMBER: 124:118185
TITLE: Periodic proteins containing electroactive substituents: synthesis and electrochemical characterization
AUTHOR(S): Beecher, Jody E.; Kothakota, Srinivas; Fournier, Maurille J.; Mason, Thomas L.; **Tirrell, David A.**; Larmat, Fernando; Reynolds, John R.
CORPORATE SOURCE: Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Polymer Preprints (American Chemical Society, Division

of Polymer Chemistry) (1995), 36(2), 154-5
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 04 Jan 1996
AB The recombinant protein of sequence [(GlyAla)3Gly-3TA]13 (3TA = 3-thienylalanine) was electrochem. polymerized with 3-methylthiophene in a three electrode cell using Bu4N+ ClO4- and hexafluoroisopropanol.
CC 35-7 (Chemistry of Synthetic High Polymers)
ST thienylalanine **protein sequence** electrochem polymn; methylthiophene copolymer thienylalanine **protein sequence**
IT 173028-96-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(electrochem. polymerization of thienylalanine-containing **protein sequence** with 3-methylthiophene)

L12 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:692796 CAPLUS
DOCUMENT NUMBER: 123:333370
TITLE: Bifunctional hybrid artificial proteins
AUTHOR(S): Dong. Wu; Fournier, Maurille J.; Mason, Thomas L.; **Tirrell, David A.**
CORPORATE SOURCE: Dep. Polymer Sci. Eng., Univ. Massachusetts, Amherst, MA, 01003, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1994), 35(2), 419-20
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 21 Jul 1995
AB A hybrid protein was designed to contain the repetitive polypeptide -[-(Ala-Gly)3-Glu-Gly]36 bound to a bacterial phosphotriesterase. The protein was prepared by recombinant DNA technol. and purified. A large proportion of the hybrid protein formed inactive, insol. inclusion bodies, which were attributed to the enzyme domain. Activity was detected in the small portion of the expressed hybrid protein that remained soluble The bifunctional nature of the protein was demonstrated in that the repetitive polypeptide domain gave rise to high affinity for DEAE-Sephadex A-50 anion exchange resin and the enzyme domain retained its catalytic activity.
CC 7-2 (Enzymes)
Section cross-reference(s): 6
IT 9047-01-2DP, Phosphotriesterase, **fusion** products with repetitive polypeptide 170832-41-4DP, **fusion** products with phosphotriesterase
RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); PROC (Process)
(bifunctional hybrid artificial proteins)

L12 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:534753 CAPLUS
DOCUMENT NUMBER: 119:134753
TITLE: Analysis of synthetic proteins by matrix-assisted laser desorption mass spectrometry

AUTHOR(S): Beavis, Ronald C.; Chait, Brian T.; Creel, Howard S.; Fournier, Maurille J.; Mason, Thomas L.; **Tirrell, David A.**
CORPORATE SOURCE: Lab. Mass Spectrom. Gas Phase Ion Chem., Rockefeller Univ., New York, NY, 10021, USA
SOURCE: Polymeric Materials Science and Engineering (1992), 66, 27
CODEN: PMSEDG; ISSN: 0743-0515
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 02 Oct 1993
AB The authors report the use of matrix-assisted laser desorption mass spectrometry (MALDMS) in the anal. of a synthetic protein produced as part of an ongoing investigation of the crystallization behavior of periodic polypeptides. This anal. demonstrates the power of the technique for the fast, accurate determination of mol. weight and points the way to the use of MALDMS as a method for the sequencing of proteins.
CC 9-5 (Biochemical Methods)
Section cross-reference(s): 6, 34
ST **protein sequence** laser desorption mass spectrometry
IT **Protein sequence** determination
(by matrix-assisted laser desorption mass spectrometry)

L12 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:546659 CAPLUS
DOCUMENT NUMBER: 117:146659
TITLE: Analysis of artificial proteins by matrix-assisted laser desorption mass spectrometry
AUTHOR(S): Beavis, Ronald C.; Chait, Brian T.; Creel, Howard S.; Fournier, Maurille J.; Mason, Thomas L.; **Tirrell, David A.**
CORPORATE SOURCE: Lab. Mass Spectrom. Gas Phase Ion Chem., Rockefeller Univ., New York, NY, 10021, USA
SOURCE: Journal of the American Chemical Society (1992), 114(19), 7584-5
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 17 Oct 1992
AB An artificial protein containing the repeated undecapeptide sequence (AlaGly)4ProGluGly was expressed in Escherichia coli and analyzed by PAGE and matrix-assisted laser desorption mass spectrometry. Electrophoretic anal. revealed no contaminants in the purified product but suggested a mol. weight more than twice that expected. Accurate determination of the mol. weight by mass spectrometry prompted discovery of sequence errors in the DNA code for the protein, and the mass spectrum revealed the presence of small polypeptide fragments thought to be products of proteolysis. Anal. of these fragments shows that each is related to the next by addition or deletion of a single amino acid residue, such that portions of the protein sequence can be read directly from the mass spectrum.
CC 9-16 (Biochemical Methods)
Section cross-reference(s): 6
ST **protein sequence** detn mass spectrometry
IT **Protein sequence** determination
(mass spectrometric, of proteins)

L12 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:158401 CAPLUS

DOCUMENT NUMBER: 114:158401
TITLE: Synthesis and expression of an artificial gene encoding a novel sequential polypeptide
AUTHOR(S): McGrath, Kevin P.; Fournier, Maurille J.; Mason, Thomas L.; **Tirrell, David A.**
CORPORATE SOURCE: Dep. Polym. Sci. Eng., Univ. Massachusetts, Amherst, MA, 01003, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1990), 31(1), 190-1
CODEN: ACPPAY; ISSN: 0032-3934
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 03 May 1991
AB A new approach to the preparation of polymers with precisely controlled chain microstructure is presented. By exploiting the high fidelity of protein biosynthesis, coupled with recent advances in the synthesis, cloning, and expression of genes, polymers are prepared in which each of the most important structural variables of the chain is under tight control. Polymers prepared by these methods are pure materials; monodisperse in mol. weight, of defined sequence and composition, and stereochem. pure. Thus these methods are regarded as the logical successor to the chemical techniques (Ziegler-Natta and living polymns.) that have provided, over the last 3 decades, increasing control over chain architecture. The implications are revolutionary, particularly in the design and construction of ordered polymeric solids.
CC 3-4 (Biochemical Genetics)
Section cross-reference(s): 6, 34
IT **Protein sequences**
(of artificial protein KM3-28 and monomer repeat segment)

L12 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:63289 CAPLUS
DOCUMENT NUMBER: 106:63289
TITLE: Competitive adsorption of divalent cations and cationic polyelectrolytes on phosphatidylglycerol bilayer membranes
AUTHOR(S): Turek, Anne B.; **Tirrell, David A.**
CORPORATE SOURCE: Dep. Chem., Carnegie-Mellon Univ., Pittsburgh, PA, 15213, USA
SOURCE: Journal of Bioactive and Compatible Polymers (1986), 1(3), 309-15
CODEN: JBCPEV; ISSN: 0883-9115
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 07 Mar 1987
AB DSC was used to study the competitive binding of divalent cation (Mg2+ or Ca2+) and cationic polyelectrolyte [ionene-6,10-bromide (I)] to dipalmitoylphosphatidylglycerol bilayers. Mg2+-induced membrane transitions were completely reversed by I, indicating complete displacement of bound Mg2+ by I. Ca2+-induced transitions were only partially reversed by I, suggesting the coexistence of Ca2+- and I-membrane complexes. The modulation of bilayer properties by polyelectrolyte adsorption may be related to the bactericidal action of polycations.
CC 6-6 (General Biochemistry)
Section cross-reference(s): 10
IT Microbicidal and microbiostatic action
(bactericidal, of **polycations**, phosphatidylglycerol bilayer modulation in relation to)

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